

# SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 28th Year  
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## Mom + Dad + Five Kids = 7 Hams



Having a few hams in one family isn't probably too unusual, but seven? True! In the photo above in the Collins family of Tomahawk, WI. From left to right are Natalie, KB9QNP, 8 years old; Veronica, KB9QKT, 14; Terry, Jr., KB9QNR, 15; Kym, KB9QNR, 12; Pauline, KB9QNO, 10; Dawn, KB9CNJ (mom); and, in front, Terry, Sr., KB9AUP, dad. Terry started in ham radio in 1956 at age 11 as a Cub Scout and avid SWL. He spent 25 years as a musician, and, with his wife, built a theatrical sound and light company. Terry came back to ham radio in

1988, operating mostly tube-type gear and working as a VE liaison. Mom began her ham career in 1989 while running the family business, nursing the kids, and working on her General ticket. She loves hamfests and flea markets. The Collins Kids attended ham radio classes sponsored by the Tomahawk Repeater Association in April and May, 1997. All were licensed in May, 1997. The Collins Kids are multi-talented, with many interests in addition to Amateur Radio.

Photo courtesy Terry Collins/KB9AUP

## Seventeen schools on STS-94 SAREX schedule

Thanks to SAREX -- the Shuttle Amateur Radio EXperiment -- students at 17 schools, including one in the People's Republic of China, are scheduled to talk with the astronauts on the upcoming STS-94 mission aboard the shuttle Columbia. STS-94 is a "refly" of the April STS-83 mission that had to be cut short when a problem developed in one of the shuttle's fuel cells. STS-94 is set to launch on July 1. During the earlier mission, Columbia prematurely returned to Earth April 8 without making any of the scheduled SAREX QSOs.

Most of the schools on the earlier schedule remain on tap for the July mission, which will again carry the micro-gravity science lab. Three hams are among the STS-94 crew members. They are Jim Halsell, KC5RNI, the mission commander; Janice Voss, KC5BTK; and Donald Thomas, KC5FVF.

Under the SAREX program, students at each of the selected schools ask questions of the astronauts during the contact. The primary goal of SAREX is to excite students' interest in learning.

Schools selected by the SAREX Working Group for a ham radio contact during this mission include: Mountain View Elementary School, Prescott Valley, Arizona; Center Street School, El Segundo, California; Ione Junior High School, Jackson, California; Foursquare Radio Amateur Youth, Oxnard, California; Crittenden Middle School, Mountain View, California; Robert J. Burch Elementary School, Tyrone, Georgia; Edgewater High School, Orlando, Florida; Lexington Traditional Magnet School, Lexington, Kentucky; Discovery Place Inc, Charlotte, North Carolina; Lawrence Intermediate School, Lawrenceville, New Jersey; Yeso Elementary School, Artesia, New Mexico; Public School No 9, New York, New York; Du Bois Middle School, Du Bois, Pennsylvania; Dunn's Corners Elementary School,

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## New Yorker's ham ticket suspended for 15 months

The FCC has suspended the Technician Class license of a ham in Brooklyn, New York, for causing willful or malicious interference, using obscene or indecent language and failure to identify. The licensee, Anthony Barben Jr, N2WNF, consented to a 15-month suspension which resulted from the FCC's efforts to resolve a rash of interference

cases in the New York City-Long Island area. The FCC said the violations occurred in November 1996.

The FCC's Enforcement Division has requested that Barben forward his license to the Commission. The suspension became effective this week. --FCC

- The ARRL Letter, 6/13/97

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EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

## Swapfests and Other Social Events

**SATURDAY, JULY 12, 1997.** South Milwaukee ARC Swapfest. American Legion Post 434, Oak Creek, WI. Contact (414) 762-3235.

**SATURDAY, JULY 12, 1996.** Eau Claire ARC Swapfest, Eau Claire County Fairgrounds, Eau Claire, WI. Contact PO Box 1867, Eau Claire, WI 54701., Carol Ceraso (715) 723-9205 or Liz Searing (715) 834-1303.

**SATURDAY & SUNDAY, JULY 12 & 13, 1997.** Central Division Convention, Indianapolis, IN. Contact: Rick Ogan, N9LRR, 5329 Lester St., Indianapolis, IN. 46208. (317) 257-4050.

**SUNDAY, JULY 13, 1997.** Fox River Radio League, Waubesa Community College, Route 47 at Harter Rd., Sugar Grove, IL. Contact: FRRL, PO Box 673, Batavia, IL 60510-0673.

**SATURDAY, JULY 26, 1997.** Rockford (IL) Amateur Radio Association Hamfest. Winnebago County Fairgrounds, Pecatonica, IL. Contact: RARA, PO Box 8465, Rockford, IL 61126-8465. (815) 399-9233.

**SUNDAY, JULY 27, 1996.** Racine Hamfest, Racine, WI. Contact RMC, PO Box 3, Racine, WI 53401.

**SATURDAY, AUGUST 2, 1997.** Copper Country RAA, Houghton, MI. Roland Borgan, KB8XI, PO Box 217, Dollar Bay, MI 49922, (906) 482-2403. E-mail: rburgan@up.net

**SUNDAY, AUGUST 3, 1997.** HAMNIC: Marshfield Area Amateur Society will be holding their 6th annual picnic, potluck, swapfest in Wildwood park, Marshfield, WI. Gather around 11:00 a.m. All welcome. Contact Guy A. Boucher, KF9XX, 107 West Third St., Marshfield, WI 54449. (715) 384 4323. PACKET: KF9XX@W9IHW.WI.USA.NA. e-mail guyboucher@tzn.net

**SATURDAY, AUGUST 9, 1997.** CIRCUS CITY SWAPFEST, Sauk County Fairgrounds, Baraboo, WI. Vendors, tail gate area, free parking, concessions, camping. \$5.00 (\$4.00 advance), \$5.00 per table (8 foot). Contact Steve, N9UDO, at (608) 356-4777 (voice or fax).

steven9udo.baraboo.com. or Bill, N9KXX at (608) 643-6453 (evenings), (608) 643-6908 (days), (608) 643-8850 (fax).

**SATURDAY, AUGUST 23, 1997.** NORTHWOODS HAMFEST, Sugar Camp Town Hall, Rhinelander, WI. 13 miles north of Rhinelander on HWY 17 to Camp Four Road in Sugar Camp. Sponsored by the Rhinelander Repeater Association and the Northwoods ARES. Doors open at 8:00 a.m. Admission \$2.00. ARRL testing. Contact: Mary Berger, NS9Q, 367 Lois St., Rhinelander, WI 54501. (715) 362-9296.

**SUNDAY, AUGUST 24, 1977.** Woodstock '97 Hamfest. McHenry County Fairgrounds, Woodstock, IL. Contact: Tri County Radio Group, PO Box 3107, Skokie, IL 60076-6107. Voice/Fax (847) 658-1678.

**SATURDAY, AUGUST 30, 1997.** Namekagon Valley Wireless Assn., Hayward, WI. Contact: Mary Lindberg, KB9LFF, 9316 East Evergreen Ave., Solon Springs, WI 54873. (715) 378-2368.

**SUNDAY, AUGUST 31, 1997.** Great River ARC, Iowa Antique RC, & Tri-State Computer Users Group, Dubuque, IA. Contact: Jerry Ehlers, N0NLU, 3115 Brunswick St., Dubuque, IA 52001. (319) 583-1060. E-mail: jerryonlu@mwci.net

**SATURDAY, SEPTEMBER 6, 1997.** W9DXCC Convention & Banquet, Holiday Inn, Rolling Meadows, IL. Contact: Chairman, Phil Camera, KB9CRY. (708) 343-1696, FAX (708) 343-3494, E-mail: iphil@megsnet.net

**SATURDAY - SUNDAY, SEPTEMBER 21-22, 1997.** Peoria Superfest '97 at Exposition Gardens, Peoria, IL. Contact: SUPERFEST '97, PO Box 3508, Peoria, IL 61612-3508.

**SATURDAY - SUNDAY, SEPTEMBER 27-28, 1997.** RADIO EXPO 97, Lake County Fairgrounds, Grayslake, IL. Contact: Chicago FM Club, PO Box 56724, Harwood Hts, IL 60656-0724. (708) 457-0966.

**SATURDAY, November 2, 1997.** Fox Cities ARC, Kaukauna, WI. Contact: Chad Pennings, N9PRC, 2815 Fieldcrest Dr., Kaukauna, WI 54130. (414) 759-0799.

**SATURDAY & SUNDAY, NOVEMBER 15-16, 1997.** Fort Wayne Hamfest at Allen County War Memorial Coliseum Exposition Center, Fort Wayne IN. Contact: ACARTS, PO Box 10342, Fort Wayne IN 46851. (219) 484-1314.

**SUNDAY, JANUARY 11, 1998.** 26th annual

Midwinter Swapfest, sponsored by the West Allis Radio Amateurs Club, Waukesha County Expo Center Forum, Waukesha, WI. Contact WARAC Swapfest, PO Box 1072, Milwaukee, WI 53201.

**SUNDAY, JUNE 7, 1998.** Adams county hamfest scheduled for June 1, 1997 has been canceled. Plans are already in place to put forth a much larger and expanded Hamfest next year.

See also the back page and flyer ads for additional information on many of these events.

Let us know of your dates as soon as you know them. We will list them and perhaps help avoid conflicts with other events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

## CLUB MEETINGS

Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the June 1997 meetings column for the latest complete listing. There have been no changes since the last listing.

## The Test Point



Amateur Radio Examination Locations  
and Schedules in the Wisconsin Area

July 05, 1997	Oshkosh (Omro), WI
July 05, 1997	St. Paul, MN
July 08, 1997	Apple Valley, MN
July 11, 1997	Eau Claire, WI
July 12, 1997	Eau Claire, WI
July 12, 1997	Blaine, MN
July 12, 1997	Bloomington, MN
July 12, 1997	Madison, WI
July 12, 1997	Oak Creek, WI (MRAC)
July 12, 1997	Arlington Hts, IL
July 15, 1997	Eden Prairie, MN
July 19, 1997	Cottage Grove, MN
July 19, 1997	Loves Park, IL
July 19, 1997	Milwaukee, WI (BE)
July 26, 1997	Tomahawk, WI
July 26, 1997	Wauwatosa, WI (MRAC)
August 02, 1997	Hudson, WI
August 02, 1997	Oshkosh (Omro), WI
August 02, 1997	St. Paul, MN
August 02, 1997	Pewaukee, WI
August 09, 1997	Blaine, MN
August 09, 1997	Bloomington, MN
August 09, 1997	Madison, WI
August 09, 1997	Oak Creek, WI (MRAC)
August 12, 1997	Apple Valley, MN
August 16, 1997	Cottage Grove, MN
August 16, 1997	Loves Park, IL
August 16, 1997	Milwaukee, WI (BE)
August 19, 1997	Eden Prairie, MN
August 30, 1997	Tomahawk, WI
August 30, 1997	Wauwatosa, WI (MRAC)
September 13, 1997	Marshfield, WI
September 20, 1997	Appleton, WI
October 04, 1997	Hudson, WI
October 18, 1997	Redgranite, WI
November 01, 1997	Menomonie, WI
November 02, 1997	Kaukauna, WI

## Badger State Smoke Signals

Amateur Radio  
Education and Information

**CHAIRMAN:** Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

**EDITOR:** Jim Romelfanger, K9ZZ, 412½ Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031. InterNet e-mail: smokesigs@baraboo.com

**TREASURER:** Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

**EDITORIAL BOARD:** Ken Ebnetter, K9EN; Dave Knaus, WA9POV; Don Evenson, K9JYX; Jim Romelfanger, K9ZZ.

### Subscriptions

1 year	(12 issues)	\$13.95
2 years	(24 issues - save \$2.00)	\$23.95
3 years	(36 issues - save \$4.00)	\$33.95

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

### When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1. The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than

the 9th of that month. This material is to be sent to the Editor.

### Where to Send It

Address changes and corrections should be sent to Ken Ebnetter. Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter. Club, swapfest, and Test Point information should be sent to Ken Ebnetter.

Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

### Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. **THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN.**

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*Badger State Smoke Signals* is incorporated as a Wisconsin non-stock, non-profit organization.

### Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

November 15, 1997 Redgranite, WI  
 December 06, 1997 Hudson, WI  
 December 13, 1997 Marshfield, WI  
 December 13, 1997 Redgranite, WI  
 January 24, 1998 Appleton, WI  
 Monthly, 1st Sat. Racine, WI  
 (except January, July & August)  
 Monthly, 1st Sat. Oshkosh (Omro), WI  
 Monthly, 1st Sat. St. Paul, MN  
 Monthly, 2nd Thu. Apple Valley, MN  
 Monthly, 2nd Sat. Oak Creek, WI (MRAC)  
 Monthly, 2nd Sat. Madison, WI  
 Monthly, 2nd Sat. Bloomington, MN  
 Monthly, 2nd Sat. Blaine, MN  
 Monthly, 3rd Tue. Eden Prairie, MN  
 Monthly, 3rd Sat. Milwaukee, WI (BE)  
 Monthly, 3rd Sat. Loves Park, IL  
 Monthly, 3rd Sat. Cottage Grove, MN  
 Monthly, Last Sat. Milwaukee, WI (MRAC)  
 (except December)  
 No test on June 28, 1997 (Field Day).  
 Monthly, Last Sat. Tomahawk, WI  
 (January thru October only)  
 Quarterly Marshfield, WI  
 (Second Saturday every third month.)  
 Quarterly Eau Claire, WI  
 (Second Saturday Jan., Apr., & Oct.)  
 plus annual summer hamfest.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

#### GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$6.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

#### MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

SECOND SATURDAY - OAK CREEK, WI  
 LAST SATURDAY - MILWAUKEE, WI

SECOND SATURDAY DATE: 1:00 p.m. to 3:00 p.m.  
 at Wauwatosa Savings Bank, 6560 S. 27th St., Oak Creek, WI.

LAST SATURDAY DATES: (except December):  
 9:00 a.m. to 12:00 noon at Amateur Electronic Supply (AES), 5710 W. Good Hope Rd., Milwaukee, WI. Note: For Additional Information: Call (414) 466-HAMS (Answering Machine).

Bring along your ORIGINAL license, CSCE and one (1) good quality photocopy of each, plus two forms of identification, such as a driver's license, etc. Also required is \$6.25 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: Print the grade of license you are applying for, your name, address, and telephone number. Send the card to MRAC/VEC, Milwaukee Radio Amateurs Club, PO Box 25707, Milwaukee, WI 53225.

#### BADGER EXAMINERS (BE) - MILWAUKEE

Badger Examiners group now testing at AES (Amateur Electronic Supply) at 6th and Good Hope, every third Saturday MORNING. Exam times are not 9:30 a.m. to 12:00 noon, at the old Serman Printing shop, just 300 feet west of the AES store. Novice to Extra are offered, and all test materials are provided, fee is \$6.25, and bring your original

license, or CSCE if needed. Also available are Commercial license exams GROL (General Radiotelephone license), GMDSS, Telegraph, Etc. Fee is \$35.00. For more information call Gary Sharbuno, WI9M at (414) 355-0237.

#### MADISON, WI

VE exams are held in Madison every second Saturday morning of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$6.25, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

#### RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Talk in on 147.87/.27. Inquiries and registrations should be directed to Robert N. Jensen, W0WLN, 5616 Cambridge lane #6, Racine, WI. Telephone (414) 886-8551.

#### TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

#### APPLETON, WI - ARRL/VEC MANITOWOC, WI (HAMFEST) KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test sessions in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Testing starting at 8 a.m. For Appleton information, contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967. For Manitowoc or Kaukauna information, contact Larry Siebers, KD9IA (414) 759-1167.

#### STEVENS POINT, WI (ARRL/VE)

Held in room 107, of the UWSP Science Building, on the corner of Fourth and Reserve Streets in Stevens Point. Contact Joe Larson, N9JW evenings at (715) 344-1182.

PEWAUKEE, WI Kettle Moraine Exam Team.  
 Held at the Pewaukee WCTC Campus Science Building, Room S101. 9:00 a.m. to Noon. Contact Al Johnson, AA7CS. (414) 568-0836.  
 103357.3222@COMPUSERV.COM

#### OSHKOSH (OMRO)

The Oshkosh VE Team will administer Amateur Radio exams monthly on the first Saturday. Registration begins at 8:30 a.m. and exams will be given from 9 a.m. until noon at the Omro Community Center, 130 W. Larrabee, Omro, WI. Walk-ins welcomed. Bring a good quality photocopy of your original license and any other necessary documents such as a CSCE, etc. The first session will be through W5YI/VEC, and then sessions will alternate between ARRL/VEC and W5YI/VEC. The exam fee is \$6.25. For more information, please call Dick Lemme, K9FA, at (414) 235-0987, e-mail lemme@vbe.com, or write Dick at 826 Jefferson Street, Oshkosh, WI 54901.

#### EAU CLAIRE

The Eau Claire ARC will hold exam sessions on the second Saturday in the months of January, April, and October, as well as on the date of their annual hamfest during the summer. For further information contact: Carl F. Searing, W9NW, 1129 Mc Kinley Road, Eau Claire, WI 54703-2219. (715) 834-1303.

#### REDGRANITE, WI (W5YI VEC)

The Radio Amateurs of Wisconsin (RAW) will be holding test sessions at the Civic Center in Redgranite, 202 Pine River Road, one block from Highway 21. Registration at 8:45 a.m. with testing at 9:00 a.m. Bring two forms of identification, \$6.25 per test, two copies of all original documents, CSCE's, Licenses, etc. All are welcome for breakfast at the Curve Inn on Highway 21, preceding the exam session. For further information, contact: Mark Miller, N9WT, (414) 231-1662 or Sharon Gramza, N9YGN, (414)

566-2362.

#### MENOMONIE, WI

The Menomonie, WI VE team will conduct its 1997 exams on Saturday, Saturday, November 1, 1997. At UW-Stout Communication Center, 820 South Broadway, Menomonie, WI. Walk-ins only, 9:00 a.m. to 11:00 a.m. Contact: Jim Ley, NX9F, (715) 232-1397 (W) or (715) 235-3998 (H).

#### WISCONSIN DELLS, WI

Wisconsin Dells City Hall, City Council Chambers. 10:00 a.m. to 2:00 p.m. Contact: K9WD, (608) 254-2895.

#### HUDSON, WI

Testing is held at the St. Croix County emergency government Center on Carmichael road in Hudson, WI. Registration begins at 8:00 a.m. and testing begins promptly at 9:00 a.m. Contact: Greg Miller, KB9JHL, 503 4th St., Hudson, WI 54016. (715) 386-9857.

#### MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WB0KIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

#### PEWAUKEE, WI (ARRL/VEC)

Contact: Rodger Bradley, AA9OJ. (414) 691-3089.

#### ARLINGTON HEIGHTS, IL (ARRL/VEC)

Contact: Frank Stankiewicz, (847) 437-1464.

CEDARBURG, WI - ORC HAMFEST  
 EAU CLAIRE, WI - ECARCHAMFEST  
 GREEN BAY, WI - ARES HAMFEST  
 HAYWARD, WI - HAYWARD HAMFEST  
 KAUKAUNA, WI - SWAPFEST  
 MANITOWOC, WI, LAKESHORE HAMFEST  
 MARSHFIELD, WI - HAMFEST  
 OAK CREEK, WI - SMARCHAMFEST  
 RACINE, WI - RACINE HAMFEST  
 RHINELANDER, WI - NWARC SWAPFEST  
 ROCKFORD, IL - RARCHAMFEST  
 ROTHSCHILD, WI - W5YI HAMFEST  
 SOUTH MILWAUKEE, WI - SMARCHAMFEST  
 STEVENS POINT, WI - CWRA SWAPFEST  
 WAUKESHA, WI - KMRA SWAPFEST  
 WAUKESHA, WI - MIDWINTER SWAPFEST  
 DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

#### DUBUQUE, IA - ARRL/VEC

Dubuque Hamfest. Contact: Carl Clark, N0KAX, 2145 Delicia Drive, Dubuque, IA 52001. (319) 557-9149.

#### LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

#### MINNESOTA TEST INFORMATION

From the September 1996 edition of "The Ground Wave", Saint Paul Radio Club.

#### Saint Paul Radio Club (SPRC)

Contact: Jay Bellows, K0QBE (612) 222-7253

Test Site: St. Paul Technical College

235 Marshall Ave.

St Paul, MN

TESTING: First Saturday of the month, 8:30 a.m.

#### Anoka Amateur Radio Club (AARC)

Contact: Art Mundy, W0FYX, (612) 571-7441

Test Site: Blaine City Hall 9150 Central Ave NE

Blaine, MN

TESTING: Second Saturday of the month, 9:00 a.m.

#### Bloomington Amateur Radio Club (BARC)

Contact: Dan Royer, KE0OR (612) 888-9756

Test Site: Creekside Community Center

98th & Penn Avenue S

Bloomington, MN

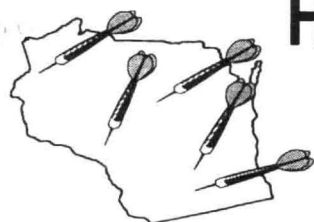
TESTING: Second Saturday of the month, 9:00 a.m.

#### Valley Amateur Radio Club (VARC)

Contact: Paul Ramey, W0GOG (612) 432-1640

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## HERE and THERE

### CyberHam Magazine QRX

CyberHam Magazine publishers Gene Harlan, WB9MMM, and Shari Harlan, WB9SFT, have announced that the magazine has been put "on hold" and has ceased publication. Gene Harlan said the reason is that the magazine has not been successful getting enough new advertisers, and some advertisers had dropped out altogether. In addition, he said subscriptions were down. "I know times are tough for all amateur radio retailers and manufacturers, and we were hoping that we could ride the upcoming sunspot cycle as the interest came back," Harlan said, adding that he and his wife want to "leave the door open" for someone to take over the magazine or perhaps try it again later when its prospects look brighter.

"A mailing will go out around July 1 explaining what we will do to take care of what we owe people," Harlan said. "We intend on keeping Harlan Technologies going." He said software sales had been supporting the magazine.

CyberHam Magazine began publication last September as an effort to merge interest in ham radio and computers. It had been published bi-monthly.

- The ARRL Letter, 6/13/97

### Mir Frequency change experiment

A frequency change experiment is tentatively scheduled to take place the weekend of June 15th at 1200 UTC with the 2-meter station on board the Mir Space Station. The duration of the experiment has not been finalized, but we would like your inputs on the results. The MIREX team has received numerous complaints from around the world, stating the existing Mir 2-meter channels are not usable.

In November 1996, Mir changed from the successful

channel 145.550 simplex to a 145.200/800 split frequency. This combination of channels (145.200/800) does not work very well for most parts of the world. In many countries, 145.200 is used for repeater outputs or inputs. The 145.790 channel is in use by many semi-permanent packet operations. The new temporary frequency which MIREX has requested is **145.985 simplex**. All operations, voice and packet will be on **145.985 simplex**. This frequency was chosen for three primary reasons. First, it complies with the ITU International Band plan for Satellite operations. Second, It gets Mir away from most of the terrestrial based interference. Third, the Mir 2-meter station is desensed by commercial VHF activities on board Mir (in the 143 MHz range).

Stations are encouraged to listen to the Mir activities on the new channel and send your signal and interference reports to the CEO of MIREX, Dave Larsen. It is very important to participate and send reports. This is an opportunity to provide useful input.

Address:

E-mail doc @ volcano.net

Packet n6co @ N0ARY.#NOCAL.CA.USA.NOAM

Postal N6CO POB1501 PINE GROVE CA 95665

Please do not send signal reports via the Mir PMS mail box. And do not bother the Mir crew members about the frequency change. This frequency experiment is solely the responsibility of the MIREX Working Group. The MIREX Working Group would like the thank all of the people involved with assisting in this information gathering experiment, including the Mir 23 Crew members and the Chief of Cosmonaut Amateur Radio Department RSC.

Suggested Report format: (pre-aamps turned off, state antenna style, then describe interference if any):

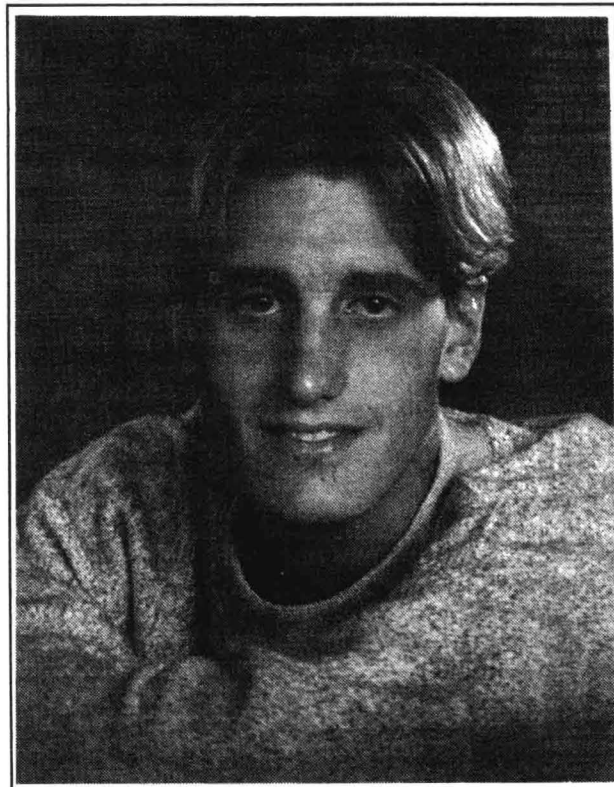
Elevation Degrees / S-Unit

5 5  
10 9  
30 +10  
50 +20  
30 8  
10 6  
5 2

[ANS thanks Dave Larsen, N6CO/K6MIR, for this news about MIR.]

- ANS-166 Weekly Bulletins

## Eau Claire amateur wins three scholarships



Adam G. King, N9JRC, recent graduate of Eau Claire Memorial High School, has been awarded the Andrew Stremcha Memorial Scholarship, the Chicago FM Club Amateur Radio Scholarship, and the UW-Superior Bernice C. Anderson Scholarship. Adam will attend the University of Wisconsin-Superior next year as a Freshman, with major studies in computer science and biology. His career interests include engineering, rehabilitation engineering, marine biology, and veterinary medicine. Adam was first licensed as a Technician-Plus (KB9EJH) at age 10 in 5th grade.

Dr. Tom King/WF9I

## Special Event Stations

### EAA Convention and Fly-In

From the world's busiest airport, Wittman Field, Oshkosh, WI, home of the EAA Fly-In, members of the Fox Cities Amateur Radio Club, W9ZL, will operate from the Experimental Aircraft Association Fly-in and Convention in Oshkosh, WI, August 1, 2, and 3, 1997. They will be operating from "Pioneer Airport" adjacent to the EAA Aviation Museum. Operations will be on the General phone portions of the HF bands, as well as RTTY and CW as conditions and operators permit. The club also will be giving "on-grounds" convention information (no QSLs, please) on 146.520 simplex.

Proper QSL and SASE only to: Wayne Pennings, WD9FLJ, 913 N. Mason Street, Appleton, WI 54914 for a special 8" x 10" picture certificate.

Wayne Pennings/WD9FLJ

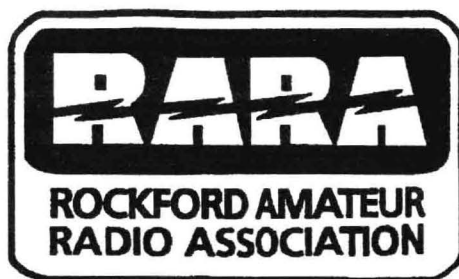
### The Great Circus Train

JULY 7 AND 8, 1997: K9ZZ/Circus Train Mobile will operate from 1400 UTC July 7 until 0130 UTC July 8 and 1400 UTC until 2100 UTC July 8 from the Great Circus Train as it travels from Baraboo, Wisconsin's Circus World Museum (housed in the original winter quarters of the Ringling Bros. Circus) to Milwaukee with 20 double-length flat cars carrying more than 60 priceless, fully restored circus wagons for the Great Circus Parade the following Sunday, July 13.

Operation will be voice only on 7.240 and 14.240 (alternately), and 21.325, and on 146.55 MHz FM. A brief operation may also be around 0000 - 0200 UTC July 6 as the gear is installed. There MAY be extended hours on July 8. A 9 X 12 SASE with three units of first-class postage is required for a full-color certificate; DX, send four IRCs. SASEs go to Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913.

Jim Romelfanger/K9ZZ

**C. W. receiving contest !  
Toss the H. F. radio contest !  
Door Prizes !  
Main prize is a Dual band H. T. !  
Tailgating!  
GOOD FOOD available !  
drive in unloading/loadup.  
ARRL sanctioned**



**at Winnebago County Fairgrounds  
Pecatonica, IL. 16 miles West of RKFD.  
on July 26, 1997 7:00 A. M. to ??**



# HAMFEST and COMPUTER FAIR

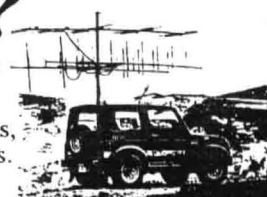


Contact Mike N9LAN, for your table reservations at <mander5@ix.netcom.com> or (815) 397-4304  
other information from Marsha KB9NGN, at (815) 399-9233 or <wa9ffl@aol.com>  
Club address: R.A.R.A., P.O. box 8465, Rockford, IL, 61126-8465.  
all tables have electric available, bring your own ext. cord.  
Lots of electronic goodies for sale! Come one come all!

## PortaPole?

• 26.3 ft Max • 5.5 ft Min • 8.5 lb •

Telescoping Aluminum Mast  
holds yagis, corners, parabolas,  
rotators, beams, wire antennas.  
Easy to carry, install . . . \$135  
Park-on base support . . . \$70

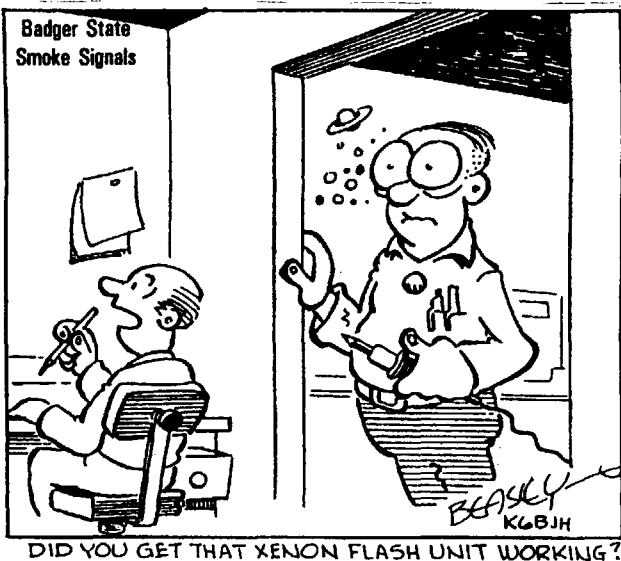


Info S&H: \$12 pole \$6 base  
AntennasWest \$1 Order Hotline:  
Box 50062-W, Provo UT 84605 801-373-8425



# On the Lighter Side

By Bob Beasley, K6BJH



## Congress acts to protect volunteers

The US House and Senate have passed companion bills aimed at shielding volunteers from lawsuits resulting from their activities as volunteers. The Senate has passed S 544, and the House has passed a companion bill, HR 911, each described as "The Volunteer Protection Act of 1997." The Senate is expected to adopt the House version of the bill and send to President Clinton for signature.

As a result, volunteers of nonprofit organizations and government entities will, in the words of the House Judiciary Committee report on the bill, "generally be relieved of liability for harm caused if... the volunteer was acting within the scope of the volunteer's responsibilities."

This will be good news to Volunteer Examiners, Official Observers, ARES and RACES volunteers and others working under the sponsorship of a qualifying non-profit organization, all of whom appear to be covered by HR 911. The pending new law means that you aren't as likely to be sued as a result of harm unintentionally caused to someone else, if your actions were part of your responsibilities as a volunteer working on behalf of a government agency or a non-profit organization.

Amateurs and other volunteers are advised that until the bill is signed by the President and its various loopholes pass the scrutiny of the legal community, they should not assume they'll automatically be covered. It appears, for example, that ham volunteers not working under the sponsorship of a qualifying organization and who provide communication during a marathon, bicycle race or other public service or public safety event might not be covered. The same exclusion might apply to frequency coordinators and certain others who--though they are volunteers--aren't participating on behalf of a non-profit entity. The law will clearly protect only those who are "volunteers of a non-profit organization or government entity." The definition is less clear with respect to "non-profit organizations." These can be Section 501(c)(3) entities, that is, an organization holding a certain tax exemption from the IRS. But, they also include those organizations which may not be tax-exempt, but which are organized and conducted for public benefit and operated primarily for charitable, civic, educational, religious, welfare, or health purposes.

The growing reluctance of private citizens to volunteer for fear of lawsuits triggered interest in this legislation. Some states have enacted volunteer protection statutes, but inconsistency among the various state laws prompted the League to promote liability legislation in Congress, initially to protect VEs and Amateur Auxiliary members.

The new legislation requires that the volunteer be licensed, certified or authorized, "if appropriate or required" by state or local authorities. It does not provide protection where the harm was caused by willful or criminal misconduct, gross negligence, reckless misconduct, or conscious, flagrant indifference to rights or safety of the individual(s) harmed by the volunteer. The House version of the legislation would not cover any volunteer who inadvertently caused harm to another person while operating a motor vehicle that requires an operator license or insurance. Also, certain limitations in existing state volunteer liability laws are not preempted by the Federal protection under the bill.

## Thank You! from the Central Wisconsin Repeater Association

On behalf of the Central Wisconsin Repeater Association, Inc. (CWRA); the Board of Directors and members wish to extend a humble, full hearted THANK YOU to the hams in Wisconsin.

The response to the antenna re-construction fund (or whatever else you wish to call it) has been nothing short of overwhelming. When the tower fell, everything beyond the radio was destroyed. The cost to replace the antenna, antenna bracket, feedline and labor to do the installation was going to be about \$5,000.

This broke the bank, and for a time it looked as though Baraboo 146.88 was going to be history. In addition, we didn't even know if we would be permitted back on the new tower. Well, we were assured of a spot on the tower, near or at where we were before. All we needed to do was get there!

The dues renewals, new memberships and donations really started to arrive in February. We had enough by March 8, 1997 (the CWRA Annual Meeting) and announced it at that time.

It is really something to be on this end of it. Everyone knew that it would be some months before the 88 repeater would be back, but the dues for the year arrived, as did the donations. All of this was just unconditional support. The letters and notes ran something like this: "Heard your repeater tower broke, here is some help. Hope you can get it back OK, and thanks for the use these past years."

Following is a list, in no particular order, of those who gave donations:

Milwaukee Repeater Club  
Adams County Amateur Radio Club  
Kettle Moraine Radio Amateurs  
Rock River Radio Club  
Green Fox Amateur Radio Club  
Eau Claire Amateur Radio Club  
West Allis Radio Amateur Club  
Four Lakes Amateur Radio Club

Beloit Amateur Radio Club  
Watertown Amateur Radio Club  
Black River Wireless Association  
Ozaukee Radio Club  
Madison Area Repeater Association  
Falls Amateur Radio Club  
Wisconsin Valley Amateur Radio Assn.  
Fox Cities Amateur Radio Club

W9DU  
WA9EKG  
K9BIL  
WJ9H  
K9HIZ  
WN9I  
WA9JOB  
KB9KUP

WA9KXQ  
KB9NAM  
KB9NJO  
WB9PCI  
K9QZI  
WB9RWW  
WB9RYS  
WB9SMM

N9TD  
W9UGT  
K9VAL  
W9WSS  
KE9XN  
N9ZWU  
K9ZZ

WB9BPS  
K9JMP  
N9MW  
WB9RNF  
WB9UQT  
NG9V  
N9XUB

K9YXW  
W9NGT  
K9IUR  
N9LWJ  
N9NZX  
K9PJB  
WA9JOB

Continuing space and coverage has been provided by *Badger State Smoke Signals*. Jim, K9ZZ, has provided space and has badgered me to get the thank you notes out. His help has been invaluable. Thank you, Jim!

I really hope that I haven't missed anyone. As you can see, the list is long. I don't care to specify amounts; suffice to say that the support and contributions were given from the heart and were unconditional. The support has come across Wisconsin from Eau Claire to the Fox Valley, to the state line and from Canada and Illinois. We didn't know that so many had been touched by Baraboo 88!

As for the status. At this time the tower is being manufactured or may even be enroute. The new date is the end of July 1997. So, the repeater's antenna is up on a temporary tower for the time being.. but it is back!

Once again, a heartfelt thank you. You, the amateur community, have been very special!

Gari - NG9V

Secretary, CWRA

ARRL General Counsel Chris Imlay, W3KD, is studying copies of the House and Senate bills to determine the impact of the new legislation on Amateur Radio volunteers.

ARRL Bulletin ARLB028, 5/30/97

## League files spread spectrum reply comments

Replying to comments filed in response to the FCC's plans to relax Amateur Radio spread spectrum (SS) rules, the ARRL has suggested that the Commission "arrived at a balanced approach" in its Notice of Proposed Rule-making (FCC 97-10, released March 3, 1997). The Notice proposed to amend Part 97 rules to facilitate spread spectrum communication by means of additional spreading codes and the incorporation of automatic power-limiting circuitry. The League said the Commission's notice was "carefully crafted to accommodate competing interests," including more flexibility for ham SS operation and avoidance of problems with other users, including narrowband ham operation and unlicensed Part 15 devices. The ARRL had originally petitioned for the SS rules changes.

The comments were split among those who felt the rules changes were too liberal and those who felt they didn't go far enough. Among the recurring themes were

issues involving the incompatibility of narrowband modes and SS on the same bands and the requirement for automatic power control (amateur SS operations are currently restricted to a maximum of 100 W output). Under the proposed rule, operation about 1 W would require provisions to reduce power automatically to the minimum necessary. Some commenters recommended that the FCC also permit in-mode station identification and permit SS emissions on all ham bands above 50 MHz. The League noted that concerns about possible SS interference with weak-signal and satellite work in the same bands were beyond the scope of the proceeding, because the Notice "does not propose to either increase power for SS emissions, nor expand the frequencies on which SS transmissions may be conducted." The ARRL said that because commenters cited no instances of interference, "there is thus no justification for imposition of additional restrictions on SS emissions." The ARRL filing added that informal band planning was the best approach to avoiding interference to narrowband users. The ARRL also deflected opposing comments of Part 15 users by noting that they "generally have no [legal] standing to object to Amateur Service rules changes."

The League urged the FCC to adopt the changes spelled out in its March Notice "without delay." The rules changes "will permit increased experimentation and continued protection against any increase in interference potential," the League's filing stated.

The ARRL Letter, 6/20/97

## BADGER STATE SMOKE SIGNALS

### Subscription Form Regular Individual Subscription Rates

1 Year: \$13.95 • 2 Years: \$23.95 (save \$2.00) • 3 Years: \$33.95 (save \$4.00)

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Name: \_\_\_\_\_ Call Sign (if any): \_\_\_\_\_

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☐ 1 Year ☐ 2 Years ☐ 3 Years ☐ New ☐ Renewal

Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913-0337. Please do NOT send cash!

JULY 1997

## Circus City Swapfest

Sponsored by The Yellow Thunder Amateur Radio Club

Saturday August 9, 1997 • 7 a.m. - noon  
Sauk County Fairgrounds • Baraboo, WI

Vendors • Concessions  
Camping • Free Parking  
Tail Gate Area

\$4 - Advanced  
\$5 - At Gate  
8 Foot Tables - \$5

Steve Schulze, N9UDO  
(608) 356-2313/356-4777

Bill Klinkner, N9KXX  
(608) 643-6308/643-6453

http://www.thelora.com/~sschulze/hamfest.htm



# The Computer



By Stan Kaplan, WB9RQR  
105 Martin Drive  
Port Washington, WI 53074-9654  
(414) 284-9346  
WB9RQR @ N9PBY.EN63BI.WI.USA.NA  
SKAPLAN @ POST.ITS.MCW.EDU

## No. 44: A FORMULA FOR DEALING WITH VIRUSES

A few months ago, a memo came to me at my office at the medical school saying that personal software could no longer be mounted on computers at the school. Admirably, the school was trying to institute a new software accounting procedure to thwart piracy. In order to cleanly implement it, they wanted only school software on the hundreds of machines on site. OK, I thought. No sweat. I made arrangements to get a school copy of Microsoft Word for my machine, and later installed it in place of my personal copy.

A few days later, I was virus scanning a student disk containing some software I had written. The student had sent me a note saying the disk was infected when she received it from another student. Sure enough, it was infected with "Ripper", a nasty stealth virus that infects floppy boot sectors and the Master Boot Record (MBR) of hard drives. It then messes things up by swapping information in the write buffer, about once in a thousand writes. The occasional scrambling of data makes it particularly hard to spot, often corrupting data on both the hard disk and in backups before it is discovered. Another characteristic that makes it tough to spot is its "stealth" nature. Stealth viruses can "sense" the efforts of a virus scanner to look at a particular place on a hard or floppy drive such as the boot sector, and then present the scanner with what is supposed to be there even though the virus itself is actually occupying that spot. For this reason, some virus scanners are unable to detect the presence of a stealth virus. Talk about sneaky!

I filed the infected floppy in my collection of infected disks and prepared a new, virus-free disk for student use.

virus (even though I take certain precautions to prevent transfer to my machine), I proceeded to check my machine thoroughly to confirm that the infection had not spread to it. The boot sector was fine, but my virus detection software said that Microsoft Word's global document template called NORMAL.DOT was infected with the Concept virus! After a bit of investigation, I confirmed that this was indeed the case. The school's disks containing MS-Word had themselves been infected, which promptly spread to my machine when I installed the program.

"How can that be", you might ask. Only files with an EXE or COM extension can be infected with a virus, right? Wrong. Overlay files (\*.OVL or \*.OVR), dynamic link libraries (\*.DLL) and several other file types can contain viruses. In the case of Microsoft Word word processing files, when you open your letter or other document, macros stored in NORMAL.DOT will automatically load and execute. If a macro is infected, your work and even the remainder of the data on your hard drive can be damaged.

The results of this relatively new type of virus found in files associated with word processing documents are far reaching. A single mouse click while on the World Wide Web can download an email file with it's infected MS-Word attachments, invoke the word processing program, read in the file and infect your machine. And don't think that just because you don't use Microsoft Word that you are immune. As the writers of viruses continue to experiment and explore, there will be other programs that will serve as vectors (carriers) of infection. There is no way to stop the process. More and more ways will be found to damage the data on your machine.

Gloomy Gus? Nope, just a realist. Anything that can be done will be done, somewhere, by some deranged person who wants to get some "kicks". Fortunately, you can take some positive steps which can prevent an infection or reduce the impact. That's the aim of this month's article.

1. Regularly use at least 2 (two, dos, zwei, duo; read that as **more than one**) virus scanners. None are perfect, and you decrease your chance of missing a virus to well under 1% if you use two.

2. Unlike fine wine, these software packages should be not more than 3 months old. That means that you must download or otherwise obtain a new copy every three months. No, that McAfee SCAN disk dated January 1989 will simply not do! SCAN and F-PROT are my personal preferences, but there are other good ones,

F-PROT from Exec-PC. As of this writing (20Apr97), the latest versions are: SCAN, v. 3.00, 20Feb97 and F-PROT, v2.26, 24Feb97. New versions of both are issued about every three months, so a higher number version of each will be out and available when you read this. Make sure at least one of the scanners will detect macro viruses (both SCAN and F-PROT will). You can update SCAN or F-PROT at the following web sites:

SCAN: <http://www/mcafee.com>

F-PROT:  
<http://www/simtel.net/pub/simtelnet/msdos/virus/fp-xxx.zip>

(the xxx in the line above is the version number; try 227 for version 2.27)

3. Scan your entire hard drive whenever you put new programs on it (instances of virus infections in brand-new shrink-wrapped disks or CDs coming directly from the software manufacturer are not rare). Also do a scan just before each backup, and whenever you have downloaded files or had a friend's disk in your drive (the most frequent source of viral infections are disks obtained from a friend). Even if you have not added new software or had strange disks in your machine in three months, do a complete scan whenever you update your scanner software. A relatively new virus may be lurking on your machine, undetectable until the updated scanner software comes out with its new abilities.

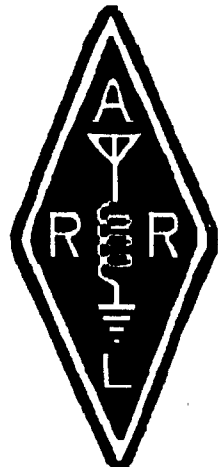
4. Back up your hard drive often. What does often mean? Three months, maximum. More often if you use it heavily. For critical items like that 60 page manual you just finished, back it up on floppies, as you complete each session. The most painless viral infection (or hard disk crash) is the one that happens right after a complete backup.

5. Make sure you have a bootable floppy disk on hand, in addition to your backups. This applies no matter what operating system you use, including (especially!) Windows 95. You cannot restore files to a drive if you cannot boot it.

6. If you do become infected (and, sorry to say, the chances are you will), don't panic. Be positive; view the infection as a learning experience (this is a lot easier to do if you have a fresh backup on the shelf). Both hard drives and floppy disks can easily be disinfected, restoring them to perfect order without damage to your files. F-PROT and SCAN will disinfect, as well as detect. If you don't know how, don't do anything until you get competent help; don't even turn off your machine! If you want to learn how, do it **before** you become infected. Read the DOC files that come with the scanner software, and print them out (you may not be able to print or even access these files once the machine becomes infected).

7. Finally, do not curtail your activities because of viruses. Enjoy your machine, Enjoy surfing the web. Share goodies with friends. If you pull back and become isolationist in an attempt to prevent infection, you have done exactly what the virus authors want. Do not make concessions to terrorists. Happy computing!

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## e.c.a.r.c. eau CLAIRE amateur RADIO CLUB SWAPFEST

Eau Claire County Fairgrounds  
Eau Claire, WI  
Saturday July 12, 1997 from 7:30am to 2:30pm

\*FREE PARKING    \*ADVANCE SETUP FRIDAY FROM 5PM-11PM    \*COMMERCIAL VENDORS  
\*FREE COFFEE    \*ALSO SATURDAY AT 5AM  
\*DOOR PRIZES    \*BUILDING SECURITY FRIDAY NIGHT    \*RAFFLE  
\*LUNCH AVAILABLE ON GROUNDS    \*EASY ACCESS

**INFORMATION AND RESERVATIONS**  
N9TUA Carol Ceraso    N9EQR Liz Searing  
(715) 723-9205    (715) 834-1303

Eau Claire ARC  
P.O. Box 1867  
Eau Claire, WI 54702-1867  
<http://www.edp.net/~mceraso/ECARC.html>

### LOCATION

\*Eau Claire County Fairgrounds just south of I-94 at the Hwy 93 exit. Then right on Lorch between Jim Carter Ford and Ken Vance Motors to fairgrounds.

\*Talk-In on the 146.31/91 Repeater\*

### W5YI VEC EXAMS

FRIDAY JULY 11 7-9PM  
SATURDAY JULY 12 9AM-1PM  
all walk-ins  
W9NW (715) 834-1303  
for information

### TICKETS

Admission	\$5.00
Extra Raffle Ticket	\$1.00
Tables (non-comm)	\$5.00
Tailgating	\$5.00
Tables (commercial)	\$10.00

**THE BARGAIN MODE**  
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**SELL SWAP BUY**  
**OUR WANT ADS GET RESULTS**

**FOR SALE:** Icom 275H, 2 meters multimode transceiver with PS-55 power supply. Excellent condition. \$1200.00.

**WANTED:** Icom 375 220 MHz multi-mode transceiver and Clegg Interceptor B receiver. Call Ed at (608) 244-3349.

**WANTED:** Conar transceiver (high frequency rig offered by NRI years ago). Also wanted: 2-meter CW rig, and memory keyer or CW keyboard. Contact me via .97 repeater in La Crosse, or KE9XQ@juno.com, or write Bill Wood, W2788 Birch Lane, La Crosse, WI 554601. □

## KWAD-KITZ

### FEATURING

- \* 2-element 6-meter Yagi
- \* 5-element 2-meter quad

**YOUR VHF/UHF ANTENNA NEEDS**

**NEW! N4UAU's Super CW Station - Assembled**

FOR INFO, CALL 1-414-208-1110  
E-MAIL: [thetzel@excel.net](mailto:thetzel@excel.net)



# WISCONSIN REPEATER DIRECTORY



Courtesy of the Wisconsin Association of Repeaters

The WISCONSIN ASSOCIATION OF REPEATERS is an organization of trustees and representatives of repeaters, state-wide, whose goal is mutual cooperation on the VHF UHF spectrum, in the voluntary spirit of Amateur Radio.

## GENERAL FREQUENCY COORDINATION POLICIES

1. We attempt to place no two repeaters on the same pair closer than 90 miles on two meters, 70 miles on 222 MHz, and 60 miles on 440 MHz and up.
2. We attempt to place no repeater on a 15 kHz split pair closer than 40 miles to any adjacent 30 kHz standard spacing machine.
3. We not only assist proposed repeaters in finding a frequency where possible, but we actively attempt to protect coordinated repeaters' frequencies from interference whenever possible.
4. W.A.R. has suggested band plans for most of the FM spectrum, a subaudible tone plan for the State of Wisconsin and all necessary information for coordination of new or modifications to existing repeaters. Contact the Frequency Coordinator:

Dan Bolander, WB9TYT, Wisconsin Association of Repeaters, 6925 W. Sheridan Ave., Milwaukee, WI 53218

Please note that if a repeater is listed WITHOUT an asterisk (\*) under the "Update OK" column, it indicates that WAR has not received an update from the repeater's sponsor or trustee. If WAR does not receive updates, these frequency pairs may be de-allocated, and reassigned to another owner or group wanting an allocation in the same general geographic area. If you have a repeater, and the asterisk is not in the Update OK column, please contact the frequency coordinator for an update form now. Your cooperation is appreciated. Please bear in mind that in typesetting, errors may occur.

## KEY TO CODES

O Carrier Access	A Autopatch	P Portable
PL Sub-Audible Continuous Tone	(CA) Closed Private Autopatch	R RACES Affiliated
T Touchtone	E Emergency Power	Z Autopatch to Law Enforcement
C Closed Private Repeater	L Link and/or Crossband	X Wide Area Coverage

## WISCONSIN SUB-AUDIBLE TONE PLAN BY REGION

North Central - 2A, 114.8 Hz	North West - 2Z, 110.9 Hz	South East - 3A, 127.3 Hz
North East - 1B, 107.2 Hz	South Central - 3Z, 123.0 Hz	South West - 3B, 131.8 Hz

## STANDARD INPUTS UNLESS OTHERWISE NOTED

-1.700 MHz for 6 Meters  
-600 KHz. below 147.00 MHz, +600 KHz. TO 148.00 MHz for 2 Meters  
-1.6 MHz. for 220 MHz, and + 5 MHz. for 440 MHz  
421.25 MHz TV Video + 18 MHz 425.75 MHz TV Aural, + 9 MHz

Location	Rg	Output	Call	Access	Update OK="	Sponsor	Updated
ADAMS	NC	145.290	K9CJM/R	O CA E		ACARC	02/22/95
ALLENTON	SE	442.350	N9GMT/R	O PL114.8 A EZ L X		FM38	09/11/95
ANTIGO	NC	145.310	KD9HH/R	O A E Z	*	KD9HH	04/06/97
APPLETON	NE	145.150	WD9FLJ/R	O PL107.2 CA EZAR	*	O CO REDX	01/12/97
APPLETON	NE	145.330	WD9FLJ/R	O PL107.2 RA	*	F V VHF A	05/30/97
APPLETON	NE	146.855	KB9ENO/R	O PL107.2 AEDSLWXRA	*	ECR LTD	05/09/97
APPLETON	NE	146.760	K9OQO/R	O PL100.0 DS EX RA	*	F V VHF A	05/30/97
APPLETON	NE	147.195	N9PAO/R	O PL107.2	*	N.X.C.	05/14/97
APPLETON	NE	442.125	W9RIC/R	O PL100.0	*	WX9C	04/06/97
APPLETON	NE	443.650	W9IEI/R	O	*	F V VHF	05/30/97
ASHLAND	NW	52.950	KB9AMY/R	O CA E L X Z R	*	KB9AMY	05/09/97
ASHLAND	NW	145.350	KB9AMY/R	O CA E L X Z R	*	KB9AMY	05/09/97
ASHLAND	NW	442.350	KB9AMY/R	O CA E L X Z R	*	KB9AMY	05/09/97
ASHWAUBENON	NE	146.835	KB9DSV/R	O PL107.2	*	KB9DSV	05/09/97
ASHWAUBENON	NE	223.940	KB9DSV/R	O	*	KB9DSV	05/09/97
BALDWIN	NW	146.685	WB0OND/R	O E L X R A	*	SARCASM	09/15/96
BALSAM LAKE	NW	147.195	N9QFW/R	O PL110.9	*	N9QFW	06/06/96
BALSAM LAKE	NW	224.900	N9QFW/R	O PL110.9	*	N9QFW	06/06/96
BALSAM LAKE	NW	443.900	N9QFW/R	O PL110.9	*	N9QFW	06/06/96
BARABOO	SC	145.310	N9KXX/R	O PL123.0	*	N9KXX	04/07/95
BARABOO	SC	146.880	K8YXW/R	O PL123.0 DS E XWX	*	C.W.R.A.	04/06/97
BARABOO	SC	147.315	N9QIP/R	C PL100.0 E X WIN	*	N9QIP/WIN	05/07/97
BARABOO	SC	224.660	KE9KX/R	O TT-200 IF QRM	*	KE9KX	01/23/96
BARABOO	SC	442.950	KE9KX/R	O PL123.0 E X	*	DRAKE R.C	01/23/96
BARABOO	SC	443.900	N9QIP/R	O PL100.0 E X L	*	W.I.N.	05/07/97
BARABOO	SC	444.250	N9KXX/R	O PL123.0	*	BSRG	04/16/95
BAYFIELD	NW	146.610	W9BCY/R	O CA	*	NLAND ARC	05/30/96
BELDENVILLE	NW	147.225	WB0WOT/R	O PL110.9 A E L	*	B.A.T.S.	06/10/96
BELDENVILLE	NW	224.840	WB0WOT/R	O PL110.9 A E L	*	B.A.T.S.	06/10/96
BELDENVILLE	NW	443.225	WB0WOT/R	O PL110.9 A E L	*	B.A.T.S.	06/10/96
BELOIT	SC	146.670	WA9JTX/R	O PL123.0 E R #77	*	BELOIT AR	04/07/97
BELOIT	SC	224.300	N9BUL/R	O TT	*	C.B.S. RG	04/07/97
BERLIN	SC	145.210	N9PAA/R	O PL123.0 X	*	N9PAA	05/09/97
BERLIN	SC	443.850	N9AOZ/R	O PL123.0 A E X	*	N9AOZ	04/08/97
BIG FLATS	SE	146.625	N9WYQ/R	O PL114.8 E	*	N9WYQ	05/20/97
BLACK RIVER F	NE	443.600	N9JCX/R	O DS E PT-TM	*	N9JCX	04/29/97
BLUFF SIDING	SW	146.835	WB0BDI/R	O	*	WINON ARC	04/06/97
BURLINGTON	SE	146.745	WB9CAS/R	O PL127.3 E	*	WB9CAS	05/14/97
BURLINGTON	SE	224.060	N9BBQ/R	O A E L X WX Z	*	SEWERS	04/07/97
BURLINGTON	SE	442.125	N9RNA/R	O SNP PL114.8	*	N9RNA	05/25/97
CALEDONIA	SE	442.500	WA9KVE/R	O	*	WA9KVE	03/18/96
CAMERON	NW	443.650	N9KOR/R	O PL110.9 E	*	N9KOR	05/22/96
CARLSVILLE	NE	146.730	WA9AIQ/R	O PL107.2	*	DOOR CO	04/07/97
CEDARBURG	SE	146.870	WB9CQO/R	O PL127.3 CA E X Z	*	O.R.C.	05/07/97
CEDARBURG	SE	442.100	KA9QLP/R	O PL127.3	*	CFD/WERA	04/07/97
CEDARBURG	SE	443.750	WA9POV/R	O PL114.8	*	WA9POV	06/02/97
CHIPPEWA FALL	NW	147.375	WD9HFT/R	O PL110.9 CA DS EX	*	WD9HFT	04/06/97
CHIPPEWA FALL	NW	442.300	WD9HFT/R	O PL110.9 DS E	*	WD9HFT	04/06/97
CLEVELAND	NE	444.175	KF9SJ/R	O PL107.2 CA ELWX	*	KF9SJ	03/29/96
CRIVITZ	NC	145.470	KF9GQ/R	O PL107.2 TT	*	ATHELSTAN	04/06/97
CUDAHY	SE	224.900	NK9G/R	O A TT L Z	*	NK9G	06/10/96
CUDAHY	SE	443.950	AA9JR/R	O PL127.3	*	AA9JR	03/07/97
DELAFIELD	SE	146.820	KE9QP/R	O PL127.3 CA EX Z	*	SEWFARS	09/15/96
DELAFIELD	SE	444.125	KE9QP/R	O PL114.8 DS E X	*	SEWFARS	09/15/96
EAGLE RIVER	NC	145.390	KD9PT/R	O CA DS E Z	*	KD9PT	05/09/97
EAGLE RIVER	NC	444.400	KA9UCE/R	O PL114.8 AEXZ AR	*	E.S.R.G.	01/01/96
EAU CLAIRE	NW	146.910	K9UXP/R	O PL110.9 A E X	*	E C A F C	04/06/97
EAU CLAIRE	NW	147.240	WU9R/R	O PL110.9 A E	*	E C ARC	04/06/97
EAU CLAIRE	NW	223.820	N9RSU/R	O PL67.0 A	*	N9RSU	03/19/97
EAU CLAIRE	NW	443.300	KB9R/R	O PL110.9 E	*	KB9R	04/06/97
EAU CLAIRE	NW	444.925	N9RSU/R	O PL67.0 A	*	N9RSU	03/15/97
ELKHORN	SE	146.885	KB9LBR/R	O	*	LAARC	04/07/97
FITCHBURG	SC	444.000	KA9VDU/R	O PL114.8 L X WX	*	BURG	05/09/97

FOND DU LAC	NE	145.430	K9IA/R	O PL107.2	*	Fdl ARA	04/06/97
FOND DU LAC	NE	147.090	WD9ESH/R	O PL107.2	*	FDL RPT	03/07/97
FOND DU LAC	NE	223.900	WA4COY/R	O PL107.2 CA EXWX	*	FDL RA	05/09/97
FOND DU LAC	NE	444.150	WA4COY/R	O PL107.2 WX	*	WA4COY	05/09/97
FORT ATKINSON	SC	53.090	AA9AD/R	O PL103.5 LXWX RA	*	S.W.R.G.	03/29/96
FORT ATKINSON	SC	145.490	WB9EMR/R	O A T T E L A W X Z	*	TCARC	05/01/96
FORT ATKINSON	SC	224.420	N9DTT/R	O A T T E L A W X Z	*	FT AT RG	05/01/96
FORT ATKINSON	SC	442.300	N9QIP/R	C PL100.0 E L X	*	W.I.N.	05/07/97
FORT ATKINSON	SC	442.750	N9DTT/R	O PL123.0	*	FT AT RG	08/01/96
FRANKSVILLE	SE	223.800	KC9NG/R	O PL127.3	*	KC9NG	04/06/97
GALESVILLE	SW	442.500	N9QIP/R	O PL100.0 TT X R L	*	N9QIP	06/04/97
GERMANTOWN	SE	224.180	W9CQO/R	O E	*	O.R.C.	05/07/97
GERMANTOWN	SE	444.525	WD9IEV/R	O PL114.8	*	WD9IEV	04/06/97
GILLINGHAM	SC	147.120	K0DB/R	O	*	K0DB	03/24/97
GRANTON	NC	146.775	N9RRF/R	O WX	*	B.R.W.A.	05/09/97
GREEN BAY	NE	147.075	N9PAY/R	O PL107.2	*	AHSTC	05/09/97
GREEN BAY	NE	147.120	K9GB/R	O PL107.2 CADSEXZ	*	G B M&K	06/19/96
GREEN BAY	NE	147.270	KE9PW/R	O PL107.2	*	NEWRL	04/06/97
GREEN BAY	NE	147.360	K9EAM/R	O A E W X A	*	G B M&K	10/19/96
GREEN BAY	NE	224.140	W9HAM/R	O PL107.2 A E L Z	*	RADACTV	04/06/97
GREEN BAY	NE	443.500	KB9AMM/R	O CA E	*	TEARUG	04/06/97
GREEN BAY	NE	443.750	N9IE/R	O	*	RRU	09/09/97
GREEN BAY	NE	444.775	K9EAM/R	O CA E Z X	*	G B M&K	06/19/96
GREEN LAKE	SC	146.955	KB9WC/R	O	*	G FOX ARC	04/06/97
GREEN LAKE	SC	444.400	KB9WC/R	O E X A W X	*	G FOX ARC	01/01/96
GREENDALE	SE	1282.500	KD9Y/R	O	*	KD9Y	06/10/96
GREENWOOD	NC	145.490	W9FYP/R	O E	*	W9FYP	05/09/97
HALES CORNERS	SE	145.170	W9FK/R	O A Z	*	WARAC	12/01/96
HARTFORD	SE	147.285	K9MLD/R	O PL127.3 E	*	K9MLD	05/14/97
HAYWARD	NW	147.255	W9NNS/R	O PL110.9 A E Z LX	*	NVWA	03/29/96
HAYWARD	NW	444.850	N9EGE/R	O	*	N9EGE	04/06/97
HILBERT	NE	53.170	KN9P/R	O	*	KA9QJN	04/06/97
HILBERT	NE	146.895	N9OBG/R	O PL146.2/151.4	*	N9OBG	01/22/96
HIXTON	SW	146.940	KC9YE/R	O X A	*	T-J RA	05/07/97
HOLCOMBE	NW	52.810	N9LIE/R	O PL110.9 E X	*	N9LIE	05/07/97
HOLCOMBE	NW	145.470	N9LIE/R	O PL110.9 E L X	*	N9LIE	05/07/97
HOLCOMBE	NW	147.345	N9QWH/R	O L PRK FLS&HYWR	*	N9QWH	06/18/95
HOLCOMBE	NW	444.525	N9LIE/R	O PL110.9 E L X	*	N9LIE	05/07/97
HOLLANDALE	SC	146.655	KB9AKM/R	O PL123.0	*	HVARC	04/07/97
HOLLANDALE	SC	444.550	N9QIP/R	C PL100.0 E X L	*	N9QIP/WIN	05/07/97
HUDSON	NW	145.130	W9AVX/R	O CA R E	*	SCC RACES	02/08/97
HUDSON	NW	146.955	K0LAV/R	O TTON787 TTOFF1787	*	K0LAV	04/06/97
IOLA	NC	444.650	N9NOI/R	O PL114.8	*	N9NOI	04/07/97
IRMA	NC	146.730	K9GTQ/R	O	*	K9GTQ	05/09/97
IRMA	NC	146.970	KC9NW/R	O CA L	*	KC9NW	05/14/97
JANESVILLE	SC	53.190	KF9RU/R	O PL123.0 E	*	KF9RU	05/20/97
JANESVILLE	SC	145.450	WD9ACY/R	O	*	R.A.T.S.	05/09/97
JANESVILLE	SC	147.075	KB9YC/R	O PL123.0	*	KB9YC	04/07/97
JANESVILLE	SC	916.000	N9HF/R	O FM VIDEO	*	N9HF	03/07/97
JUNEAU	SC	146.640	WB9ADB/R	O PL123.0 AELWXZAR	*	ROCK R RC	05/30/97
KAUKAUNA	NE	444.450	ND9Z/R	O PL107.2 CA TT	*	ND9Z	05/09/97
KENOSHA	SE	224.800	K9RI/R	O PL114.8	*	K.A.R.S.	04/07/97
KENOSHA	SE	442.200	N9OIG/R	O PL114.8 DS L X	*	N9OIG	05/20/97
KEWAUNEE	NE	146.805	WB9RJB/R	O PL107.2	*	WB9RJB	02/07/97
LA CROSSE	SW	146.700	WA9HCZ/R	O RTTY 2125MARK	*	WA9HCZ	04/07/97
LA CROSSE	SW	146.760	K9CUT/R	O TT X	*	LaCrossRA	03/29/96
LA CROSSE	SW	146.970	K0JYB/R	O A E X Z W X RA	*	RVRLNDARC	04/06/97
LA CROSSE	SW	147.090	N9ETD/R	O	*	N9ETD	04/06/97
LA CROSSE	SW	444.600	WA9HCZ/R	O	*	ONA ARC	04/07/97
LA VALLE	SC	442.400	W9EBF/R	O PL123.0 E P	*	W9EBF	04/06/97
LAC DU FLAMBE	NC	146.670	N9AFN/R	O PL107.2	*	N9AFN	05/09/97
LAC DU FLAMBE	NC	146.700	W9BTN/R	O	*	W9BTN	04/07/97
LODI	SC	147.225	K9EYY/R	O PL123.0	*	K9EYY	04/07/97
LOHRSVILLE	SC	145.270	KB9JJB/R	O PL123.0	*	KB9JJB	03/20/97
LUXEMBURG	NE	443.700	KA9BLI/R	O PL107.2 E	*	N9DKH	10/19/96
MADISON	SC	53.070	N9KAN/R	O PL103.5 CA ELZRA	*	S.W.R.G.	03/29/96
MADISON	SC	146.685	W9YT/R	O PL107.2 E	*	UW BARS	04/07/95
MADISON	SC	146.760	W9HSY/R	O PL123.0 CA DSEXZ	*	M A R A	04/07/97
MADISON	SC	146.940	N9KAN/R	O PL123.0 DS WX	*	C W R A	04/06/97
MADISON	SC	147.150	W9HSY/R	O PL123.0 CA DSEXZ	*	M A R A	04/14/97
MADISON	SC	224.160	WB9RSQ/R	O PL123.0 A E L Z	*	WB9RSQ	05/30/97
MADISON	SC	443.400	N9KAN/R	O PL123.0 CA ELXZA	*	S.W.R.G.	03/29/96
MADISON	SC	444.500	WB9TAE/R	O PL123.0 CA DS EL	*	WB9TAE	06/10/96
MADISON	SC	444.725	NG9V/R	O PL123.0	*	NG9V	04/06/97
MADISON	SC	444.775	NG9V/R	O PL114.8 DS WX	*	NG9V	07/10/96
MADISON	SC	444.925	WB9TAE/R	O PL123.0 CA DS EL	*	WB9TAE	06/10/96
MANITOWOC	NE	145.190	WB9MFB/R	O PL107.2 E RA	*	WB9MFB	05/09/97
MANITOWOC	NE	146.610	W9DK/R	O PL107.2CA EZRAWX	*	MANCORAD	04/07/97
MANITOWOC	NE	147.030	N9GHE/R	O PL110.9 A Z R	*	N9GHE	03/08/97
MANITOWOC	NE	224.540	N9GHE/R	O R	*	N9GHE	03/08/97
MANITOWOC	NE	443.975	N9GHE/R	O A R	*	N9GHE	03/08/97
MARSHFIELD	NC	147.180	AA9BN/R	O A E Z L444.975	*	MAARS	01/14/96
MARSHFIELD	NC	444.975	AA9BN/R	O E L147.18	*	MAARS	01/14/96
MAUSTON	NC	146.850	N9FVP/R	O E	*	ARC OF CW	05/22/96
MEDFORD	NC	147.150	KB9DBX/R	O A E W X	*	TAYLOR	04/06/97
MENOMONEE FAL	SE	444.425	KA9FIN/R	O	*	SHRINE	03/18/96
MENOMONIE	NW	146.610	WB9YMB/R	O A E L X Z A	*	R CDR RA	04/07/97
MENOMONIE	NW	146.805	N9HNI/R	O CA 911 #DOWN	*	N9HNI	03/09/97
MEQUON	SE	53.010	N9PMR/R	O PL103.5	*	N9PMR	03/20/97
MERRILL	NC	147.285	N9LIC/R	O	*	M.A.R.G	09/26/95
METEOR HILL	NW	53.150	N9QWH/R	O USE -1 MHZ NOW	*	N9QWH	06/18/95
MILTON	SC	146.715	K9RIJ/R	O A T T E	*	K9RIJ	04/06/97
MILTON	SC	443.175	K9RIJ/R	O A E	*	K9RIJ	04/06/97
MILWAUKEE	SE	29.680	N9BBG/R	O PL127.3	*	W.E.R.A.	01/10/96
MILWAUKEE	SE	52.990	N9PPX/R	O PL103.5 CA Z DS	*	N9PPX	10/09/95
MILWAUKEE	SE	53.030	WB9TRO/R	O PL103.5 E L	*	WERA	02/19/97
MILWAUKEE	SE	145.130	N9LKH/R	O PL127.3 A E L Z	*	MAARS	03/09/96
MILWAUKEE	SE	145.230	N9BMH/R	O PL127.3 TT	*	N9BMH	05/30/97
MILWAUKEE	SE	145.250	KA9WXN/R	O PL127.3 DS	*	UW-M ARC	10/15/96
MILWAUKEE	SE	145.390	WB9AFB/R	O PL127.3 DS	*	MATC RC	06/10/96
MILWAUKEE	SE	146.625	WB9ZRB/R	O PL127.3	*	WB9ZRB	07/03/95
MILWAUKEE	SE	146.670	W9WK/R	O PL127.3 AEXZRWX	*	ARES	01/01/96
MILWAUKEE	SE	146.790	W9HHX/R	O PL127.3 A CA DS	*	M5OE ARC	05/09/97
MILWAUKEE	SE	146.850	W9KHO/R	O PL127.3	*	MICORS	03/07/97
MILWAUKEE	SE	146.910	WA9JOB/R	O PL127.3 DSEXZAWX	*	MKE RPTR	05/09/97
MILWAUKEE	SE	147.000	W9PY/R	O PL146.2 A X	*	PHANTOM	03/06/97
MILWAUKEE	SE	147.045	W9RH/R	O	*	M.R.A.C	04/16/95
MILWAUKEE	SE	147.105	K9IFF/R	C CA E TT	*	K9IFF	04/06/97
MILWAUKEE	SE	147.165	WB9SDD/R	O PL127.3 E	*	WB9SDD	05/09/97
MILWAUKEE	SE	147.210	W9ODD/R	O PL127.3	*	M.U. RAMS	04/07/97
MILWAUKEE	SE	224.960	WD9EUF/R	O PL114.8 A Z	*	WD9EUF	04/29/97
MILWAUKEE	SE	442.650	N9VBK/R	O PL114.8	*	N9VBK	04/07/97
MILWAUKEE	SE	443.050	N9OSK/R	O PL100.0 CA DS WX	*	N9OSK	05/20/96
MILWAUKEE	SE	443.150	W9KHO/R	O PL114.8	*	MICORS	03/06/97
MILWAUKEE	SE	443.300	KG9CS/R	O PL114.8	*	KG9CS	02/08/97



MILWAUKEE	SE 443.550	N9LKH/R	O PL127.3 A X L Z	N9LKH	05/20/97	SLINGER	SE 443.225	WD9DHI/R	O PL127.3 E	WERA	02/19/97
MILWAUKEE	SE 443.800	N9GMT/R	O PL114.8 A EZ L X	FM38	09/11/95	SOLON SPRINGS	NW 145.490	K9ASC/R	O A E Z	DC RACES	03/11/97
MILWAUKEE	SE 444.200	K9HXA/A	C PL114.8 CA L	K9HXA	06/02/97	SOLON SPRINGS	NW 147.390	N9QWH/R	O PL110.9 AZLARWX	N9QWH	10/04/95
MILWAUKEE	SE 444.300	W9WK/R	O PL114.8 L Z AR	ARES	01/01/96	SOLON SPRINGS	NW 444.625	N9QWH/R	O PL110.9	N9QWH	10/04/95
MILWAUKEE	SE 444.325	N9CFG/R	O PL114.8	B.I.O.S.	04/07/97	SPOONER	NW 147.135	KE6WF/R	O	KE6WF	04/07/97
MILWAUKEE	SE 444.450	KA9QMD/R	O PL127.3 A	KA9QMD	03/10/97	SPOONER	NW 444.800	KE6WF/R	O	KE6WF	04/07/97
MILWAUKEE	SE 444.800	K9HXA/A	C	K9HXA	06/02/97	SPOONER/HERTE	NW 145.190	KB9OHN/R	C CA E Z L	BARS	04/06/97
MILWAUKEE	SE 444.850	WB9TRO/R	C C E CA PL L X	WERA	02/19/97	SPOONER/HERTE	NW 147.300	KB9OHN/R	O CA E Z L	BARS	04/06/97
MILWAUKEE	SE 444.875	WB9TRO/R	O PL127.3 E	W.E.R.A.	05/22/96	SPOONER/HERTE	NW 224.500	KB9OHN/R	O A E Z	BARS	04/06/97
MILWAUKEE	SE 444.925	N9NGI/R	O PL127.3 CA E Z	N9NGI	05/20/97	SPOONER/HERTE	NW 443.500	KB9OHN/R	O A E L Z	BARS	04/06/97
MONROE	SC 145.110	NR9W/R	O PL114.8	G C ARA	04/07/97	STEVENS POINT	NC 146.670	WB9QFW/R	O A E Z	CWRA LTD	04/06/97
MOUNT STERLIN	SW 147.360	W9DMH/R	O E X WX	W9DMH	04/06/97	STEVENS POINT	NC 146.985	W9NN/R	O A TT E Z AR	CWRA LTD	04/06/97
NEW AUBURN	NW 146.745	N9LIK/R	O PL110.9 CA E	N9LIK	05/28/97	STEVENS POINT	NC 444.700	KC9NW/R	O E CA L	KC9NW	05/14/97
NEW BERLIN	SE 442.400	W9EBF/R	O PL127.3 E	W9EBF	04/06/97	STOUGHTON	SC 443.325	N9LHS/R	O PL114.8	N9LHS	03/20/95
NEW HOLSTEIN	NE 147.300	K9LGU/R	O A E Z	C.A.R.E.S	04/06/97	STOUGHTON	SC 443.600	KA9QOT/R	O PL123.0 E	KA9QOT	08/31/95
NEW RICHMOND	NW 145.270	N9LIE/R	O PL110.9 L X	N9LIE	05/07/97	STURGEON BAY	NE 147.210	W9AIQ/R	O CA A E X Z	DC ARC	07/25/95
NEW RICHMOND	NW 444.675	N9LIE/R	O PL110.9 L X	N9LIE	03/29/96	STURGEON BAY	NE 444.000	WB9YUY/R	O	WB9YUY	04/07/97
NORTH FREEDOM	SC 443.675	KD9UU/R	O PL114.8 CAELXWX	S.W.R.G.	03/29/96	STURGEON BAY	NE 908.000	WB9YUY/R	O	WB9YUY	04/07/97
OCONOMOWOC	SE 442.025	N9JUJ/R	O PL114.8	N9JUJ	09/11/95	STURGEON BAY	NE1282.100	WB9YUY/R	O	WB9YUY	04/07/97
OGDENSBURG	NC 147.165	N9NOJ/R	O PL103.5 E DS	N9NOJ	04/06/97	SUPERIOR	NW 146.760	W9BWK/R	O	T P A RA	01/28/96
ONALASKA	SW 444.475	W9LZQ/R	O	RARC	03/04/97	SUPERIOR	NW 146.820	WA9VDW/R	O PL203.5 A DS	T P T G	01/28/96
OSHKOSH	NE 147.240	KA9JAC/R	O CA E Z RA WX	WIN CTY E	05/10/97	SUPERIOR	NW 444.900	WA9KLM/R	O A E	WITC ARC	03/11/97
OSHKOSH	NE 147.345	N9AOT/R	O PL107.2	SOLAR	02/08/97	TIGERTON	NC 147.135	KF9TS/R	O X WX	KF9TS	05/14/97
OSHKOSH	NE 443.450	WF9H/R	O E	WF9H	09/08/95	TOMAH	SW 145.390	N9BOE/R	O PL131.8 CA EXZRA	N9BOE	05/09/97
OSSEO	NC 145.330	N9LIE/R	O PL110.9 L X	N9LIE	05/07/97	TOMAH	SC 444.800	N9QIP/R	C PL100.0 E X L	W.I.N.	05/07/97
OSSEO	NC 444.200	N9LIE/R	O PL110.9 L X	N9LIE	03/29/96	TOMAH	SW 444.850	KB9EBX/R	O PL167.9	KB9EBX	01/23/97
PARK FALLS	NC 147.000	KA9EOK/R	O L HLCMB&HYWRD	PRICE CRA	06/17/96	TOMAHAWK	NC 53.110	N9CLE/R	O P	TOM RP A	05/28/95
PARK FALLS	NC 444.750	KA9EOK/R	O	PRICE CRA	06/17/96	TOMAHAWK	NC 145.430	N9CLE/R	O A E Z911 X	TOM RP A	05/28/95
PEWAUKEE	SE 147.210	WB9AKC/R	O PL127.3 TT	WCTC ARC	05/30/97	TOMAHAWK	NC 223.760	N9CLE/R	O	TOM RP A	05/28/95
PEWAUKEE	SE 443.125	WB9AKC/R	O PL114.8/127.3 TT	WCTC ARC	05/30/97	TOMAHAWK	NC 444.575	N9CLE/R	O	N9CLE	05/28/95
PLAIN	SC 442.100	KA9VDU/R	O PL114.8 L X WX	BURG	05/09/97	TREBOR	SE 442.600	KA9VZD/R	O PL114.8	KA9VZD	04/07/97
PLATTEVILLE	SW 145.270	KA9WBX/R	O A E	UWP ARC	06/17/96	UNION GROVE	SE 442.250	N9OIG/R	O PL114.8 X L	N9OIG	04/06/97
PLYMOUTH	NE 147.060	WE9R/R	O PL107.2 EDS	SHEB.CO	07/05/96	WABENO	NE 145.110	KF9DB/R	O PL107.2 E L147.2	N.E.W.R.L	05/09/97
PLYMOUTH	NE 444.100	KD9TZ/R	O PL107.2	S CTY 440	04/07/97	WALES	SE 224.120	WB9DRQ/R	O PL127.3 CA	WB9DRQ	03/18/96
PLYMOUTH	NE 444.350	WE9R/R	O PL114.8 E DS L X	WERA	07/05/96	WAUKESHA	SE 147.390	N9KS/R	O PL141.3	EARS/KMRA	06/09/96
PORT WASHINGT	SE 147.330	WB9RQR/R	O PL127.3 CA EXZWX	OZARES	04/06/97	WAUPACA	NC 146.925	N9BKJ/R	O CA E X A R Z	N9BKJ	06/18/96
PORT WASHINGT	SE 443.525	WB9RQR/R	O PL114.8 CA EXZWX	OZARES	04/06/97	WAUPACA	NC 147.390	WA9FDC/R	O X A R WX	WP'ACA RC	05/09/97
POUND	NC 146.685	KA9JVH/R	O PL107.2 DS L	KA9JVH	06/10/96	WAUPACA	NE 444.900	N5IIA/R	O PL114.8	N5IIA	05/14/97
POWERS LAKE	SE 443.925	K9XN/R	O PL114.8 X	LAKARS	04/06/97	WAUSAU	NC 52.830	N9MEA/R	O PL114.8 E	N9MEA	03/20/97
PRAIRIE FARM	NW 147.075	K9ST/R	O	K9ST	04/07/97	WAUSAU	NC 52.890	W9SM/R	O PL114.8	W9SM	03/20/97
RACINE	SE 53.210	N9GKH/R	O PL127.3	N9GKH	05/28/95	WAUSAU	NC 53.450	W9BCC/R	O PL103.5	R.M.R.A.	05/14/97
RACINE	SE 147.270	W9UDU/R	O CA E Z TT A	LAKESHORE	04/06/97	WAUSAU	NC 146.640	W9SM/R	O PL114.8 AELXZ911	W.V.R.A.	01/01/96
RACINE	SE 442.000	W9UDU/R	O PL127.3	LAKESHORE	04/06/97	WAUSAU	NC 146.715	KF9RU/R	O PL114.8	KF9RU	04/06/97
RACINE	SE 444.050	KA9LOK/R	O	KA9LOK	02/08/97	WAUSAU	NC 146.820	W9BCC/R	O PL114.8 CA E X L	R.M.R.A.	05/14/97
RACINE	SE 444.950	WA9BDX/R	O PL114.8 E	WA9BDX	03/19/96	WAUSAU	NC 147.060	W9KRY/R	O PL171.9 CA E X	KC9NW	05/14/97
RHINELANDER	NC 146.940	W9ZZZ/R	O A E X Z WX AR	RHIN RP A	04/07/97	WAUSAU	NC 224.640	W9SM/R	O PL114.8 AELXZ911	W.V.R.A.	05/30/97
RHINELANDER	NC 147.360	KA9TCC/R	O 114.8 A	KA9TCC	03/10/97	WAUSAU	NC 421.250	K9PT/R	O EL AM ATV	RMATS	06/04/97
RICE LAKE	NW 145.110	N9QWH/R	O PL110.9 AELXZWX	N9QWH	10/04/95	WAUSAU	NC 421.250	K9PT/R	O EL IN-FM OUT-AM	RMATS	06/04/97
RICE LAKE	NW 146.715	WB9PRI/R	O E	WB9PRI	12/01/96	WAUSAU	NC 920.000	K9PT/R	O EL AM-IN FM-OUT	RMATS	06/04/97
RICE LAKE	NW 147.030	WB9WFG/R	O PL110.9	WB9WFG	04/06/97	WAUSAU	NC 442.200	N9QIP/R	O	N9QIP	05/20/97
RICE LAKE	NW 443.700	WB9PRI/R	O	WB9PRI	09/18/95	WAUSAU	NC 443.325	KA9SOT/R	C	KA9SOT	12/01/96
RICHLAND CENT	SW 146.910	WB9SLI/R	O PL131.8	P V RP A	09/20/95	WAUSAU	NC 443.750	KC9NW/R	O PL71.9 CA X L E	KC9NW	05/14/97
RIVER FALLS	NW 443.800	K9ZMA/R	O	K9ZMA	05/30/97	WAUSAU	NC 443.950	KC9NW/R	O E	KC9NW	05/14/97
ROBERTS	NW 147.330	KA9YRV/R	O PL110.9	SCVRA	04/07/97	WAUSAU	NC 444.100	W9SM/R	O PL114.8 AELXZ911	W.V.R.A.	05/30/97
RUBICON	SC 145.350	WB9KPG/R	O A E Z	WB9KPG	01/11/95	WAUSAU	NC 444.300	W9BCC/R	O PL114.8 CA E X	R.M.R.A.	05/14/97
SAINT FRANCIS	SE 444.825	WJ9Z/R	O PL127.3 A TT Z	WJ9Z	04/06/97	WAUSAU	NC 906.000	W9BCC/R	O X	R.M.R.A.	05/14/97
SAINT LAWRENC	SE 146.730	N9LZW/R	O PL127.3 X RA	W.C. ARC	04/06/97	WAUSAU	NC1250.000	K9PT/R	O EL IN-FM OUT-FM	RMATS	06/04/97
SAYNER	NC 145.130	N9QJG/R	O A E Z911 X	MERRIL RA	08/31/95	WEST ALLIS	SE 224.520	KA9JCP/R	O	KA9JCP	04/07/97
SHAWANO	NC 145.350	KA9NWY/R	O PL114.8 CA EXZAR	KA9NWY	03/01/96	WEST BEND	SE 223.820	N9NBN/R	O PL114.8 CA	N9NBN	03/03/97
SHAWANO	NC 146.865	KB9DAC/R	O PL114.8	KB9DAC	04/06/97	WEST MILWAUKEE	SE 147.135	NY9T/R	O PL141.3	NY9T	04/07/97
SHAWANO	NC 224.480	KG9AL/R	O PL114.8 E R	KG9AL	04/06/97	WEYERHAUSER	NW 145.170	KA9PZX/R	O E	MAGIC	06/10/96
SHAWANO	NC 442.050	KB9DAC/R	O PL114.8 R WX	KB9DAC	05/20/97	WINNECONNE	NE 224.500	KB9IE/R	O CA TT L X	P.G.R.A.	03/19/96
SHEBOYGAN	NE 147.255	N9REH/R	O PL127.3 CADSEL	N9REH	05/07/97	WISCONSIN RAP	NC 146.790	W9DQA/R	O PL114.8 CAEXZAR	MIDST RA	01/01/96
SHEBOYGAN	NE 444.600	N9REH/R	O PL114.8 DS E	N9REH	05/09/97	WISCONSIN RAP	NC 147.330	K9PJB/R	O PL114.8 E	WI AIR RA	04/07/97
SHELL LAKE	NW 147.045	N9PHS/R	O E AR	NORWESCO	04/06/97						
SHELL LAKE	NW 442.150	N9PHS/R	O R WX	NORWESCO	05/20/97						
SISTER BAY	NE 147.180	W9AIQ/R	O PL107.2 CA E	DC ARC	07/25/95						

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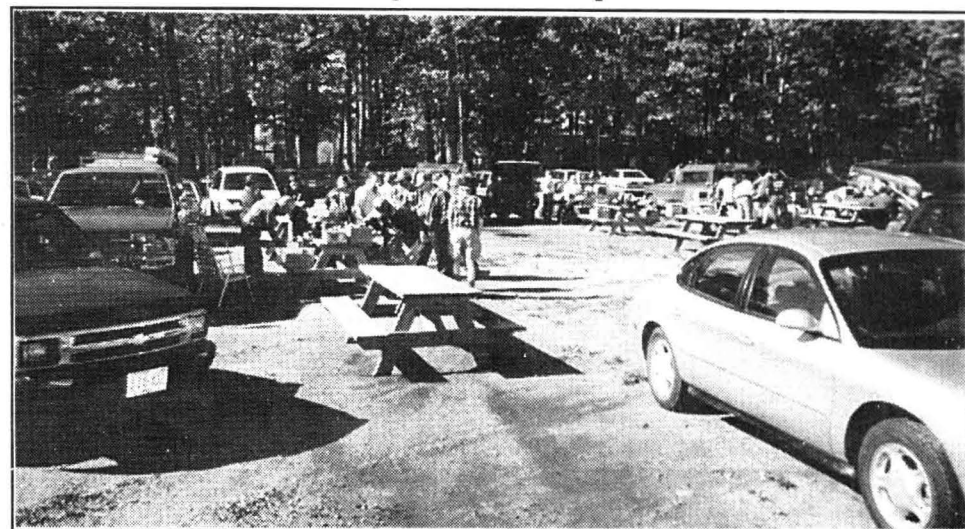
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## The Central Wisconsin Radio Amateurs at UW-SP Swapfest - in pictures



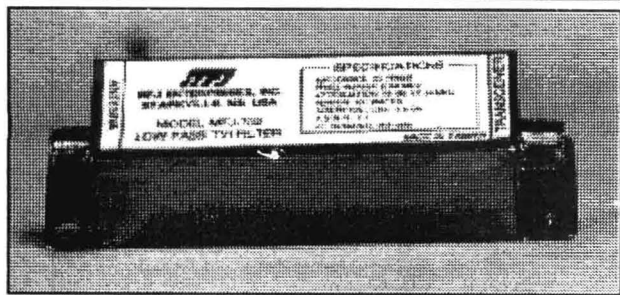
Tailgating area where people are looking for a good deal!!



Items on the table are for the auction. The auction went very well. Thanks to all who participated!  
 Photos taken June 8, 1997 by Mike Fiden. WN9JIN



# New Products



**MFJ-702 200 Watt Low Pass Filter**

The MFJ-702 will reduce your transmitter harmonics by 50 dB for only \$24.95!

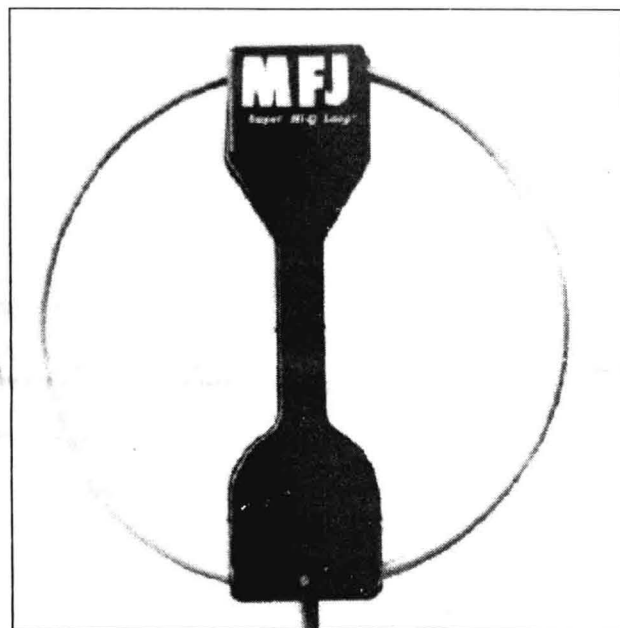
Be a good neighbor. Plug this MFJ-702 Low Pass TVI Filter between your transmitter and antenna or tuner and reduce your transmitter harmonics by 50 dB!

These troublesome harmonics could be the source of interference to your neighbor's TV, radio, VCR, telephone, cellular phone, computer, garage door opener, video game, baby monitor, remote control toys and other devices.

SWR is below 1.5 to 30 MHz into 50 Ohms. It's a perfect match for barefoot transceivers -- handles 200 watts with less than 0.5 dB insertion loss. Attenuation is 50 dB at 54 MHz. Small 6 x 1 x 1 1/2 inches fits anywhere. Has SO-239 connectors and handy mounting tabs.

The MFJ-702 200 Watt Low Pass Filter is covered by MFJ's famous NO MATTER WHAT one year unconditional warranty. MFJ will repair or replace (at their option) your unit for one complete year.

For your nearest dealer or to order, call toll-free 800-647-1800, fax 601-323-6551 or write to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759.



**MFJ-1788 40 Meter Super Hi-Q Loop™ Antenna**

The MFJ-1788 40 Meter Super Hi-Q Loop™ antenna has just a 36 inch diameter, making it the smallest, highest efficiency 40 Meter through 15 Meter antenna ever made for ham radio, and is priced at just \$359.95.

MFJ-1788 40 Meter Super Hi-Q Loop Antenna features automatic band selection, SWR/Wattmeter, round conductor, welded butterfly capacitor, and super remote control box.

No extra control line is needed! Only coax feedline is required. It's amazingly easy to tune.

The MFJ-1788 comes with all of the features of the 10-30 MHz continuous coverage antenna plus 40 Meters! It features a large 1.050 inch diameter round radiator with low RF loss resistance, all welded construction with thick wall aluminum tubing, superb tuning capacitor with each plate welded for low loss and polished to prevent high voltage arcing.

MFJ's new 40 Meter loop comes with MFJ's widely-acclaimed Super Remote Control included with power supply. MFJ's exclusive Automatic Band Selection™ auto-tunes the MFJ-1788 to your desired band and lets you know with a beep. Dual fast and slow tune push buttons make it amazingly easy to tune. You also get a built-in SWR/Wattmeter with two ranges.

You can take the MFJ-1788 40 Meter Hi-Q Loop with you on trips, vacations, DX-peditions, camping, etc. It's truly portable. It can be mounted both vertically and horizontally.

This antenna is the first choice for apartment dwellers because of its small size and non-suspicious design. Your neighbors will never know. You can put it

pleasing results.

A heavy duty 1/8 inch thick ABS plastic housing with ultraviolet inhibitors protect the tuning unit from the weather. It's built to last. The MFJ-1788 does not need a ground, radials, counterpoise or antenna tuner. It will cover 40 Meter through 15 Meter continuously with low SWR and handles 150 Watts.

MFJ-1788 Forty Meter Super Hi-Q Loop Antenna is covered by MFJ's famous NO MATTER WHAT one year unconditional warranty. MFJ will repair or replace (at their option) your unit for one complete year.

For your nearest dealer or to order, call toll-free 800-647-1800, fax 601-323-6551 or write to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759.

## Older Products



**Donald A. Evenson, K9JYX, Baraboo**

Hey, "older" isn't all that bad! Don, pictured here, has been licensed for 40+ years. His work is seen in each issue of BSSS. He's a man of many skills and talents, and he was the first ham to operate from the Great Circus Train, way back in 1965. Don, we thank you for all you have done and continue to do for Amateur Radio!

## SAREX SKEUS 17 schools for STS-94

*Continued from front page*

Westerly, Rhode Island; Alvin C. York Agricultural Institute, Jamestown, Tennessee; S.J. Davis Middle School, San Antonio, Texas; and Tsinghua University, Beijing, People's Republic of China.

During most SAREX missions, many of the crew members will make random contacts with earth-bound hams. This crew will use KC5RNI, KC5BTK and KC5FVF on FM voice and W5RRR-1 on packet. They make these contacts during their breaks, before and after meal time, and during their pre-sleep time. In fact, over the past years the astronauts have contacted thousands of amateurs around the world. On many missions, they have even carried a 2-meter packet radio station. Innovative computer software allows the crew to operate the packet gear in an "unattended" mode, allowing amateurs to make contacts with the ROBOT station when the astronauts are working or sleeping.

The SAREX Working Group has designated the following frequencies during this mission. FM voice downlink (worldwide): 145.55 MHz; FM voice uplink (except Europe): 144.91, 144.93, 144.95, 144.97, and 144.99 MHz; FM voice uplink (Europe only): 144.70, 144.75, and 144.80 MHz; FM packet downlink: 145.55 MHz; FM packet uplink: 144.49 MHz.

Hams should avoid transmitting on the shuttle's downlink frequencies. The uplink is your transmitting frequency. The crew will not favor any uplink frequency, so your ability to communicate with SAREX will be the "luck of the draw." Transmit only when the shuttle is within range of your station, and when the shuttle's station is on-the-air.

QSLs go to ARRL EAD, STS-94 QSL, 225 Main St, Newington, CT 06111494. Include the following information in your QSL or report: STS-83, date, time in UTC, frequency and mode (FM, voice or packet). You must also include a business-sized SASE.

Additional STS-94 mission information is available from NASA at the NASA Shuttle Web site, <http://shuttle.nasa.gov>.

--Glenn Swanson, KB1GW

*The ARRL Letter, 6/13/97*

# First Annual! CIRCUS CITY SWAPFEST

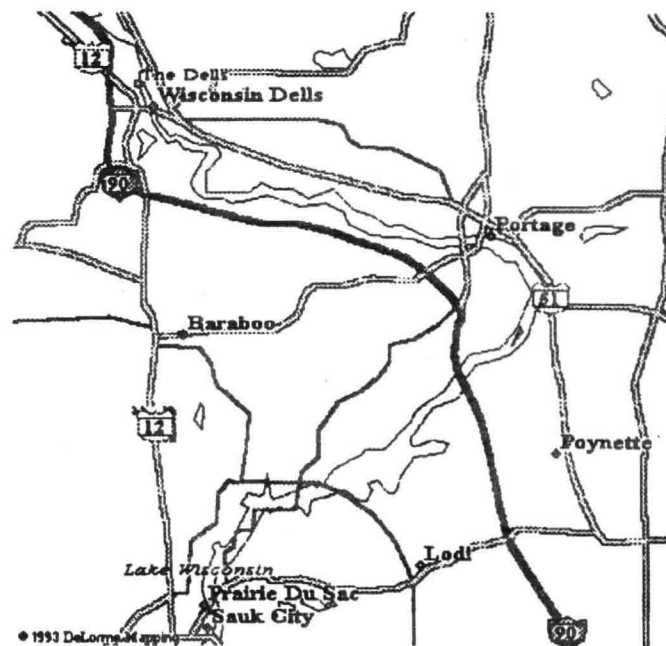
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**Sauk County Fairgrounds - Baraboo Wisconsin**

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\_\_\_\_ Admission Tickets @ \$4.00 each

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yes / no

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City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

The Sauk County Fairgrounds is located on highway 33 on Baraboo's far east side.

From I-90/94: take exit 108 (highway 33) west.  
From highway 12: take highway 33 east at the Kwik-Trip in West Baraboo.

**For more information contact:**

Steve, N9UDO at (608)356-2313 voice  
(608)356-4777 Fax & BBS  
[steven9udo@baraboo.com](mailto:steven9udo@baraboo.com) E-MAIL

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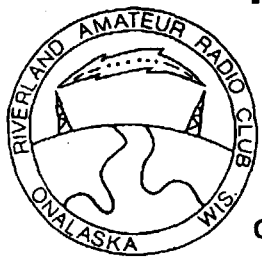
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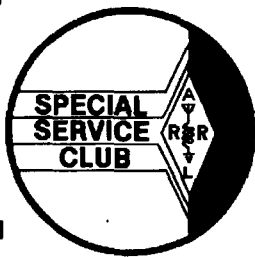
# PARTICIPATING CLUBS AND ORGANIZATIONS



## Riverland Amateur Radio Club

Dan Abts, N9PZC  
Secretary

Club mail address: P.O. Box 621  
Onalaska, WI 54650



### MEETING MINUTES June 3, 1997

The June meeting of the Riverland Amateur Radio Club was called to order at 7:01 p.m. on June 3, 1997 by President Duane, W9HWQ. There were 20 members in attendance.

The minutes of the May meeting were accepted with one minor correction after being read by Dan, N9PZC.

Roger, KA9BKK, gave the treasurer's report. We have 71 members. The report was accepted as read.

**Programs:** The program for the June meeting was a talk about Differential GPS given by Red, WO0W. For the July meeting Walt, AA9AW, will talk about packet radio.

**444.475 Repeater:** Kent, W9LZQ, reported that it was working fine.

**Net Manager:** Pete, N9XVG, had nothing new to report. He encouraged people to sign up to be net control for the Sunday Night Net.

**ARES/Skywarn:** Tom, WB9BJQ, talked about courtesy when we are under severe weather watch. Red, WO0W, said our trailer and our assistance is requested for a drill in southern Minnesota on Saturday, June 14. Details are deliberately vague. Bob, N9LZK, reminded us that the Red Cross is holding damage assessment training on June 14.

**Property Manager:** Bob, N9LZK, has purchased the new extension cord.

**Raffle:** Dick, K0JYB, was not present.

**146.97 Repeater:** Walt, AA9AW, said the repeater is working fine.

**Field Day:** Bill, KE9XQ, said that the site is the Red Cross parking lot on Losey boulevard on the south side of La Crosse.

**VE:** Bill, KE9XQ, said that tests are scheduled for September 27 and November 22. They will run from 7:00 pm to 9:00 p.m. at the Onalaska Community Center,

515 Quincy Street.

**Code Class:** Bill, KE9XQ, said that the group has just finished learning the letters and numbers. They are now starting to copy at various speeds. He plans to conduct practice sessions on 10 meters and 2 meters in the future. The details will be announced as they become available.

**Radio Procurement:** Bob, N9LZK, reported that they are looking for a solid state HF radio with an antenna tuner. The other radio should be a VHF/UHF dual band with cross band capability. Bill, KE9XQ, made a motion to spend up to \$1500 on these transceivers. Red, WO0W, seconded the motion and it passed. An amendment to set aside \$400 for future repair of these transceivers, should they need it, that was made by Kent W9LZQ was defeated.

### Old Business

Bob, N9LZK, reminded us of the club picnic on June 21.

Red, WO0W, said that a quieter muffler is being put on the generator.

### New Business

N7MDM donated some antennas, tubes, and miscellaneous items. These will be auctioned off at the July 1 meeting.

Bob, N9LZK, brought up the idea of doing a chicken Q to raise money. He will get more information and report at the next club meeting.

A motion was made at 8:12 p.m. by Tom, WB9BJQ, to adjourn the meeting. The motion was seconded by Pete, N9XVG, and passed.

Respectfully submitted:  
Dan, N9PZC

## Wisconsin Valley Radio Association

Kim Kunze, N9SDL, Secretary

P.O. Box 363 • Wausau, WI 54402

**Six Meter Repeater: 51.19 Input/52.89 Output**

### MEETING MINUTES June 3, 1997

The meeting was called to order by N9SDI. Present were: N9SDL, KB9MCZ, N9TTA, N9XVK, KB9DED, KB9DZG, KB9FRB, N9PHC, NOBK, KA9DQQ and W9VHA. The meeting minutes as published in the *Badger State Smoke Signals* were approved by members present after a motion from KB9DZG and 2nd by KB9MCZ.

Treasurer's report was approved by members from a motion by N9SDL and 2nd by KB9DZG.

Upcoming events such as the CWRA Hamfest, Field Day on June 28 and 29 and the bike race July 29 at Nine Mile Forest were discussed.

Under Old Business, it was indicated that we have now received our State Sales Tax exempt status.

The repeater codes will be changed in the near future and new codes will be mailed to current members.

The ARRL Instructor course materials will be ordered, and the ARRL membership affiliation information has also been received.

KB9MCZ asked about the Special Events Committee that was formed a couple of months ago and if anything has happened with it. The members as listed in previous minutes are N9SDL, KB9MCZ,

KB9DZG and N9IAB. It was discussed briefly about next May 29th being the 150th anniversary of Wisconsin's Statehood and the possibility of having a special events station on that weekend which would be the weekend after the Memorial Day holiday.

For New Business we mentioned the Club Picnic and tour of the Repeater site July 8th at Rib Mountain State Park. We will be eating at 5:30 and take the tour at 7:00.

We will be operating Field Day at Camp Phillips east of Wausau the 28th and 29th of June. A sign-up sheet was passed around and if interested contact one of the Board members.

We have gotten QSL's from many of the contacts from Dream Flight and will be creating the Special Events Certificate to send to many of them.

Upcoming programs for meeting will be:

August - Satellite Tracking Software demo

September - Amateur TV, and in October, the annual Club Auction.

Program for the evening was looking at the various mobile installations of those present.

Respectfully submitted:  
Kim Kunze, N9SDL

## The Racine Megacycle Club



Club Station W9UDU • Racine, WI  
ARRL Affiliated

Providing Communications for American Red Cross and ARES

Mary Urban, N9ZWE, Secretary

c/o RMC • P. O. Box 3 • Racine, WI 53401-0003

### MEETING MINUTES June 9, 1997

The meeting was called to order at 7:35 p.m. by President Rob Madson, KF9ZT.

Those in attendance were:

Rob	KF9ZT, President
Ken	N9WHR, Vice President
Dave	AA9HL, Treasurer
Mary	N9ZWE, Secretary
Lee	N9VNU, Activities
Harold	KB9LXM
Robin	NOVICE
Bill	KB9PUD
Chuck	KB9JIH
Michael	KB9JXX
Dan	KA9OIL
Rees	K9UUT
Dave	KC9NG
Bob	W9EH
Bob	W0WLN
Don	KB9HAM
Cheryl	WS9P
Larry	WA9JMO
Tony	N9ZWM
Jon	KB9PUF
Alan	N9ZWJ
Matt	GUEST

The meeting began with everyone in attendance identifying themselves.

Bob, W0WLN, reported that the Saturday June 7 testing session went very well. Two people got their licenses.

Treasurer Dave, AA9HL, read the financial report. It was accepted as read.

Mary, N9ZWE, gave the secretary's report. She mailed out 25 applications to

current members who had not renewed and 86 applications to members of the Lakeshore Repeater and QCWA groups who were not currently members of the RMC. Our membership went from 43 up to 57 members at this time. The mailing was very successful. There are more people who will be renewing yet, and Dave, AA9HL, said that some hams joined who had not been members for years. The increase in membership more than paid for the postage spent mailing out the applications. We will repeat this mass mailing again in November.

Hamfest fliers have been mailed out to some of the area electronics stores for them to post.

Publicity for the club Field Day and hamfest have appeared in the *Racine County Weekend*, *Milwaukee Journal Sentinel* and *Racine Journal Times*. Our Racine County Home Page has been corrected, and the Field Day and hamfest information added.

An application for Field Day has been submitted to TCI Racine (cable company). This is to run 24 hours a day, for 7 days previous to the event. Mary, N9ZWE, received a letter from Gay Stewart, W9HI, who now lives in upper Michigan.

He had a name to add to the Silent Key list. That is Jack Wilkenson, W9STO.

On Saturday, N9ZWE received 2 phone calls in response to the press release in that morning's paper regarding our history search. Richard Bayer, whose father was Raymond J. Bayer, W9QGR, was the first to call. He was very happy we were doing this, and he will do all he

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## E.C.A.R.C. EAU CLAIRE AMATEUR RADIO CLUB

Carl Searing, W9NW, Secretary  
P.O. Box 1867 • Eau Claire, WI 54702-1867  
<http://www.edp.net/~mceraso/ECARC.html>

### MEETING MINUTES June 10, 1997

The meeting opened at 1932 hours, President Kevin Zehr, N9OHE, presiding. After secretary's and treasurer's reports were read and approved, a rollcall indicated 30 members and guests present.

WB9RBP's records show that the club presently has 115 single, and 32 family memberships for a total of 147.

The club received a letter of thanks from the Central Wisconsin Repeater Association for our financial help to the .88 repeater.

Thanks to KC9NN, WB9RBP, WB9-PJM, KB9JOF, KB9NFF, W9ZZI and N9MNA for providing communications for the "Sierra Century Bike Tour" on May 17th.

Melanie Ceraso indicated that there is now a charge annually for a Web Site Domain name. The club voted to pay the charge required to maintain the short existing name. Melanie says the web site is indeed used, and that table reservations

for the July 12th Hamfest are being taken by E-mail.

Volunteers are needed to assist with the Altoona Emergency Disaster Training Drill on Saturday, June 14th.

Field Day is June 28/29th. Discussed: Generators, site (Westgate Sportsmen's Club), antennas, shelter, etc.

Hamfest matters: Set-up at 2 p.m. Friday July 11th; parking, tailgating, tables/chairs, sound systems, all covered. The club voted to maintain the Hamfest date as the second weekend in July for the 1998 event, and then to assess a possible date change in regard to competing events.

WB9RBP and his group will hold Amateur radio tests at the Labor Temple on Birch Street on June 21, from 9 to Noon.

Lunch Committee for the July 8th meeting: W9BUG, N9TUA, N9QWE.

Meeting adjourned: 2045 hours.

Respectfully submitted:  
W9NW, Secretary



# Racine Megacycle Club

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can to help us. He stated that the club may have started in 1920. He is in contact with a ham named Jim Cox out in Lynchburg, Virginia about this. The second call came from Eleanor Benson, wife of Lester Hynek, W9BES. Her brother, Charles Roberts, and Lester's friend, Walter Mills, W9IZW, were hams in this area. She gave her son's mailing address in Texas because he would also be interested in helping us out.

A letter was received from a ham in Illinois who is a Lakeshore Repeater member and is interested in more information about the RMC.

Field Day press releases were handed out to everyone in attendance to post in area businesses.

President Rob, KF9ZT, started a discussion of Field Day plans. Ken, N9WHR, said anyone who has extra antennas, please bring them along. It was requested that people be quiet around the tents as it can be very distracting to the people making contacts and logging.

Lee, N9VNU, handed out Field Day rules. He requested that anyone who hasn't as yet signed up, please do so.

Kenny, N9WHR, asked if the QCWA wants to use the old generator. Bob, W0WLN, declined the offer. They will be running with batteries. Please meet at the Red Cross Building at 9:30 a.m. Breakfast is at Reflections before. Rob, KF9ZT, is trying to get the Field Day activities and setup as easy and simple as possible. It should not be a major undertaking in the event of any emergency. Cheryl, WS9P, asked when we can actually start setting up the equipment. A discussion was held on the issue.

Dan, KA9OIL, stated the Fox Hunt will begin at 10:00 p.m. Saturday evening. It was decided a gift certificate would be given to the winner. Larry, WA9JMO, said that someone would have to come and dig the pit for the camp fire. He will supply the wood. Mary, N9ZWE, said we have picked up our 100 points for advertising but questioned how Field Day information would be on display for the public.

Dan, KA9OIL, needs 2 tables at the

hamfest for Naomi Zabler. She will begin selling Bruce, K9RRS', radio and computer equipment. Cheryl, WS9P, will be helping organize the equipment.

He also received a call from Dan WB9TYT, the frequency coordinator for Wisconsin. The Kenosha Repeater on 147.075 is not an allocated machine. The repeater is being investigated, and it is recommended that we stay off this repeater.

Mary, N9ZWE, has copies of the Constitution and Bylaws and the new area activities list if anyone wants them. Dave, AA9HL, has a new membership roster.

President Rob, KF9ZT, closed the meeting at 8:06 p.m.

The highlight of the evening was once again the drawing for the GOODY BOX. This month's *HAPPY* winner was Larry, WA9JMO.

The program for the evening was put on by Bob, W9EH. He brought several lap top computers and demonstrated how to use the logging program for Field Day. Everyone got to try them out.

The Fox Hunt winner for the May 23 event was the team of Dennis, WB9SVM; Dave, N9DLZ; Sharon, KB9KTU; and Dennis's son-in-law. Three foxes were hidden for this hunt, the last fox being at their favorite restaurant.

Mary, N9ZWE, has the complete list of team rank and participants. The Fox Hunt schedule for the rest of the year is: June 20, July 18, August 15, September 12, October 10, November 7, and December 5.

**June 22, 1968** - The annual Field Day test of emergency radio communication conducted by the Racine Megacycle Club, took place from 4:00 p.m. Saturday to 4:00 p.m. Sunday in the "hay field" at the Ken Howe farm at Rochester. About 20 members of the club manned "shifts" of four operators, for two hours at a time, to keep the equipment in operation during the 24-hour period. 1200 different ham radio stations were contacted during this period in all parts of the world. This is the THIRTY-FIFTH such annual test. (excerpts from the *Waterford Post* of June 26, 1968)

OFFICIAL PUBLICATION OF CENTRAL WISCONSIN RADIO AMATEURS, LTD.

At University of Wisconsin, Stevens Point



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 923 • Plover, WI 54467

## MEETING MINUTES June 11, 1997

President Mary Eiden, KA9FAS, called the meeting to order at 7:30 p.m. There was no program this month.

The secretary's report was, as announced by secretary Mike Eiden, WD9JID, in the *Badger State Smoke Signals*. The treasurer's report was given by treasurer Joe Larson, N9JW. Both the minutes and the treasurer's report were approved as read.

Mike Pagel, K9UW, reported that the 67 repeater worked well during the Special Olympics and during talk-in for the Swapfest. The normal ID tone was restored although he lowered it 50 hertz. It was 800 hertz; it is now 750 hertz. He stated that members should try their autodial numbers and that he has heard no problems so far. Bob Baird, W9NN, reported that the 985 repeater is working fine and that he has had no reports or complaints.

Mike Pagel stated that Scott Jasper, NE9U, has resigned as the Emergency Coordinator for Portage County. Mike stated that he will be acting EC. Jerry Fadness, W9GF, will be possibly taking over the job soon. He said that Portage County needs some written guide lines on what to do if an emergency occurs. He also said we need to restore the weekly net. He asked the group for ideas on when to have it and at what time. He also passed around some written plans from 2 other counties and suggested that the group look them over. After some discussion, it was decided that the net be kept at the traditional time, on Monday night at 9:00 p.m. A post card will be sent to all hams in Portage County informing them that the net will be starting up again (On Monday, July 7).

Joe Larson, N9JW, reported that Special Olympics went very well. He stated that our club was listed in the official program as one of the volunteer groups.

John Feltz, W9JN, reported that the Swapfest went well and that he wanted to thank everyone who helped with the set-up and take-down and that he was happy that it worked out well. He said that he received many calls from various people commending the club for having the Swapfest in Junction City. He stated that the

site was too small and that we need a new site (still in Junction City). It worked out great that the weather was nice; if it had rained there would have been a problem. John said that he talked to the Army Reserve Center assistant commander in Junction City. He said he would talk to the commander. He said the Center is only about 3 blocks away from where it was held this year. He said that the auction went very well and a big thank you goes to Bruce Walthers, W9QAH, for running the auction. After a brief discussion, a motion was made to have the next CWRA Swapfest held at the Army Reserve Center in Junction City on Sunday June 7, 1998. Motion passed.

John Feltz, W9JN, reported that Field Day will be in Junction City at the Village Park. After some discussion, it was decided to run both HF and VHF stations. He stated that the original plan for the leveling jacks for the trailers did not work out. He asked if he could go to Fleet Farm and by some jacks for the trailers. A motion was made to allow John to purchase the jacks for the trailers. Motion passed.

Mary Eiden, KA9FAS, stated that there is no meeting in August, so we will have a fox hunt and a picnic at Bob Baird, W9NN's house. Also, she announced that elections and the classes are coming up in September.

The meeting was adjourned at 8:47 p.m.

Next month's meeting will be held on July 9, 1997 in Room A-109 in the UWSP Science Building at 7:30 PM.

## ATTENDANCE

N9BWS	Al Mallek
WD9JID	Mike Eiden
KA9FAS	Mary Eiden
KB9IIF	Dave Tamres
N9JW	Joe Larson
W9NN	Bob Baird
W9JN	John Feltz
K9UW	Mike Pagel
K9WVM	Al Mallek
	Jan Rydberg

Respectfully submitted:  
Mike Eiden, WD9JID  
CWRA Secretary

## Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings, RCRA sponsors and guests.

This is your guest columnist for the month, Tim, WB9PMF, reporting some of the happenings in the RCRA area and Amateur Radio. Remember the RCRA is looking for guest writers of this column. If you can help, contact Steve, KA9OMC.

First, congratulations to Deena and James Kinney, KB9QK and KB9LUK, on the birth of a daughter, Maryssa Lynne, at 9:03 a.m. on Thursday, June 12. Mother and daughter reported doing well. Father is rumored to have survived also.

Congratulations to Adam King, N9JRC, of Eau Claire, on receiving the Chicago FM Club Scholarship, awarded by the ARRL Foundation Scholarship Committee.

From the "How Did He do It?" file: How did Rod, AA9UK, arrange for the FCC call sign update in June's BSSS to list his call? It has been reported to have shown up in the *W5YI Newsletter* and other places, too. He must have an "in" at the FCC. Also, best wishes to Rod's daughter on graduating from high school.

Now, some thank-yous: A special thank you to Steve, KA9OMC, for all his hard work for the RCRA. If I ever get the film developed, we will have some pictures of Steve with his plaque of appreciation.

Thank you to Jeff, N9PPE, and Scott, KB9NIR, for their invaluable assistance in checking out some new tone boards for the RCRA system.

Thanks to Lyle, WB9OKQ, for the donation of a power supply and other items to the association.

In general news, Dale, WD9GWH, and Marlin, WJ9Y, participated in the *Vintage Radio Magazine* on-the-air get-together June 14 and 15, using Ancient Modulation and CW only. None of that new-fangled SSB!

The first RCRA Skywarn net was convened Sunday, June 15, when severe weather moved through Dunn and Eau Claire counties. It went very well, with good representation from the RCRA coverage area. Thanks to everyone who checked in.

Chuck, KG9CT, plans to make a motorcycle trip out to Montana for a Honda GoldWing owners' get-together in July.

If you are looking for some new equipment, several people in the area have some nice pieces for sale.

Ron, WB9WKO, has several nice pieces of ham equipment for sale, both HF and VHF. Give him a call to see what he has at (715) 665-2431.

Jeff, KB9MMT, has a Kenwood TS-520 for sale. If interested, call Jeff at (715) 235-7032.

Bill, KB9MMR, has a Kenwood TS-50 with AT-50 antenna tuner for sale. Contact Bill at (715) 235-2231.

Last, don't forget the Eau Claire Hamfest July 12. Steve, KA9OMC, will be in the flea market area with a load of radio goodies, as usual.

Submitted by the Chippewa Falls correspondent, Tim Rose, WB9PMF

## May we print your Field Day photos, please?

It's been like pulling teeth this past few years to get pictures of Field Day operations to print here in BSSS. Why not appoint someone OFFICIAL PHOTOGRAPHER to take some good, story-telling pix to (1) be sent with your score to ARRL, and (2) send to BSSS for us to print? ID all subjects by name and call and the club's name. If you are camera-deprived, one of the throw-away cameras (Kodak, Fuji, others) are not bad. Pix to the editor, address page 2. Thanks! - K9ZZ



## SHEBOYGAN County Amateur Radio Club

Chris Jacobs, N9VKC, Secretary  
W4065 Dekker Rd., Waldo, WI 53093

Penny, N9TCF, brought the June meeting to order at 7:00 p.m. The minutes from the May meeting, as published in the "Badger State Smoke Signals" were approved.

Ballots for Board members were handed out. The election results were as follows:

President--Kurt Bruegl, N9ZMO  
Vice President--Larry Bahr, WB9FXQ  
Secretary--Mike Musiel, KF9SJ  
Treasurer--Steve Billings, N9TRK  
Board Member--Kris Scheppe, KB9LYT  
Board Member--Josh Houseye, KG9BO

Public service events coming up-volunteers needed include:

July 4th: Sheboygan City Parade  
July 24th: Bike Criterion Race  
July 26th: Hollandfest  
July 26th: Leukemia bike ride  
September 13th: Old Plank Road Classic  
October: Boy Scouts on the Air Jamboree

Mike Musial, KF9SJ, gave a report on Field Day preparations and items needed. There will be a cookout on Saturday night.

A motion was passed to buy a tri-band antenna from club member Clayton Nall,

AA9RB, for \$100.00.

Club members were reminded that dues are due.

Francis Goettl had a report on a packet site he has established for severe weather on 144.990 connecting to AA9LV-1.

There will be a fox hunt on July 8th at 7:00 with 6:30 to 6:45 check-ins.

The flat tube award was presented to Penny, N9TCF, for her work in the license class as instructor and for the great job she did as president for the last year.

A motion was passed to buy a contest logging program (CT version 8) for the club.

Clayton, AA9RB, presented a program on net operation.

The meeting was adjourned at 8:40 p.m.

The next meeting of the club will be during the Field Day weekend.

Respectfully submitted:  
Larry J. Bahr, WB9FXQ  
SCARC Acting Secretary

Your club can be a participating club in BSSS! Contact Ken Ebner, K9EN. His address is on page 2.





## SHEBOYGAN County Amateur Radio Club

Chris Jacobs, N9VKC, Secretary  
W4065 Dekker Rd., Waldo, WI 53093

### MEETING NOTES 10 June 1997

The June meeting of the Sheboygan County Amateur Radio Club was called to order by Penny, N9TCF. The SCARC meets every second Tuesday of the month at the Red Cross building, 2032 Erie Ave. in Sheboygan at 7 p.m.

Penny asked for volunteers for upcoming public service events including the Fourth of July Parade, Super Week (24 July), Holland Fest (26 July), Old Plank Road Walk (13 Sept), and the Jamboree On The Air in October.

A update on the Field Day preparations was made by Mike, KF9SJ. A description on what type of stations were going to be set up, and a list of equipment still needed was discussed.

In new business, it was motioned on the floor to purchase the used tri-band beam offered for sale by Clayton, AA9RB. The motion passed. This beam, formerly owned by N9EZI (SK), will be a welcome addition to the club station.

It was also motioned that the club purchase a copy of logging software compatible with the club computers. The motion passed, and a copy of this software will be obtained before Field Day.

The club elections were held, and the following people were elected to the SCARC board. Kurt, N9ZMO (president), Larry, WB9FXQ (Vice President), Steve,

N9TRK (treasurer), Mike, KF9SJ (secretary), Josh, KG9BO (board member), and Chris, KB9LYT (board member). Thanks to all members that threw their name into the hat for this year's election.

The program for this month's meeting was presented by Clayton, AA9RB. The program was on Net Protocol and procedures. Clayton went over some very good basic criteria for both emergency and public service nets.

There will be no July meeting, as the July meeting is held during Field Day weekend. The next meeting at the Red Cross building will be the board meeting on 22 July 1997.

As a final note, it's great to be back as club secretary. I now have a job that will let me perform these duties again. Many thanks to Chris, N9VKC, and Larry, WB9FXQ, for performing these duties in the last year.

### Net Schedules

7 p.m. Monday nights, SCARC Fun Net, 147.06 PL 107.2, +.

6:30 p.m. Thursday nights, ARES Net, 147.255 PL 127.3, +, 444.175 PL 107.2, +.

Respectfully submitted:  
Michael J. Musiel, KF9SJ

## Taylor County Area Amateur Radio Club

Tom Hrdina, N9GEN, President

2373 Willow Avenue • Medford WI 54451

### MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, July 3 at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

### CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ  
ARES Emergency Coordinator

At the 6/5/97 meeting of the Taylor County Area Amateur Radio Club, the membership present decided to pursue the offering of a course covering hazardous materials, to area Amateur Radio operators. The information obtained from completing this course would be beneficial to area ham radio operators, in the event that in the future, they might become involved in providing radio communications as part of a localized chemical spill, a not too unlikely event.

There would be NO cost for taking the course. It will take 3 months to complete, and will be done at the monthly TCAARC club meetings, as the program for that evening's meeting, most likely starting with the August meeting. The time allotment for each of the 3 meetings will be just 30 minutes (appx.). All tests are open book and are done as a group. Those completing the course will receive a wall certificate.

The course is entitled "Hazardous Materials: A Citizen's Orientation/Introduction" and is intended to provide a general introduction to hazardous materials. No prior knowledge of the subject is assumed. The course has 5 units: Hazardous Materials And Human Health, Hazardous Materials Regulation, Identifying Hazardous Materials, Preparing For Hazardous Materials Incidents, and Hazardous Materials In The Home.

Several hams are already signed up for the course. If you are interested in partici-

pating, please contact Rolly Sacho, Emergency Coordinator for the Taylor County Office of Emergency Government, at his office at 715-748-3503. The signup deadline for this course will be at the July meeting of the Taylor County Area Amateur Radio Club (July 3rd).

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

**CORRECTION:** In this column in the June, 1997 issue of *Badger State Smoke Signals*, I inadvertently omitted someone from the list of Amateur Radio operators who attended the 4/23/97 SKYWARN severe weather spotters' training session conducted in Loyal, Wis. by Todd Shea from the National Weather Service office in La Crosse. Also attending that session was WA9WEZ.

N9GHZ and KE4FE attended a Taylor County simulated disaster exercise planning meeting held on the evening of 6/16/97 at the fire hall on Rib Lake, Wis. The exercise will be held sometime later this year. It is anticipated that there will be some level of ARES/Amateur Radio involvement in this exercise. Other agencies represented at the meeting included State of Wisconsin emergency management officials, the Taylor County Sheriff's Dept., Taylor County Nurses' office, Village of Rib Lake Public Works Dept., Volunteer Fire Dept., ambulance service and First Responders, and others. A follow-up meeting will be held on July 7th at 6:30 p.m. at the Rib Lake Fire Hall.

A Clark County SKYWARN severe weather net was conducted on 6/15/97 as a result of severe weather reports in the area at that time. The net was brought up at appx. 4:05 p.m. and was secured at appx. 6:35 p.m. Net control station for the entire length of the net was N9GHZ. Check-ins included N9UWY, N9RRF, W9FPE, N9ZLU, WD9INA, KB9KFD, N9VZG, and N9TJY.

Here are some important dates for 1997 to keep in mind, as they may likely generate requests for ARES communications, based on previous years:

## Quarter Century Wireless Association Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO  
5400 Six Mile Road  
Radne, WI 53402



Our annual Great Mosquito Awareness Bash was stupendous. We had a wonderful selection of food to sample, stimulating conversations, a very short business meeting and ample time to bask in mother nature's abundance. But the giant imported Florida mosquito shipment was hung up in a custom's snaffle and never made the celebration. And, there were a few other quirks in the scheduled event. I stated last month that the outing was to take place on the 15th when in reality we gathered on 8th. To add insult to injury, on the morning of the 8th, I told my wife to call her father in Tucson and wish him a "Happy Father's Day". She called, and he said thanks for the wishes but you are a week early!

On June 14th, QCWA joined with other local Hams in providing communication for Racine County's Annual Light-house Run -- a ten and four mile competitive outing for the serious runners; and a

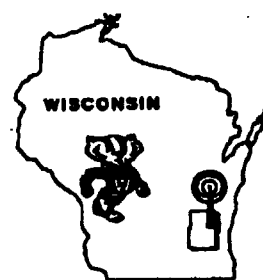
two and four mile fun excursion for those out just to bond with nature. The communicators were flawless.

Field Day 97 has drifted into history, our QRP stations provided our operators with hours of excitement and a multitude of contacts (I hope). I am sure we had a great day!

Mark your calendars! Our picnic is scheduled for Sunday, August 17th. It will be held at Decision Farm, the QTH of Larry, WA9JMO and Wendy, N9PAC McCalvy, 5400 Six Mile Road (1/2 mile west of Hwy 31 on Hwy "G" which is also Six Mile Road) in the Town of Caledonia from 1 to 5 pm. The Chapter will provide beverages and watermelon; the farm will serve roasted ears of corn. Bring a dish to pass and your own meat to grill.

We will not meet in the month of July.

73, Larry McCalvy, WA9JMO



## Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,  
Secretary  
465 Elder Lane  
Allenton, WI 53002-9799



Club Repeater: 146.73 MHz

<http://www.nconnect.net/~WCARC>

### MEETING MINUTES June 12, 1997

The June 12, 1997 meeting of the Washington County Amateur Radio Club was called to order at 7:30 p.m. by President Gary Sutcliffe, W9XT, with 13 members present. Gary opened the meeting by asking for personal introductions.

The minutes of the May membership meeting were read by Secretary Tom, N9LZW. There was a motion by Bill, N9IBU, seconded by Chris, N9ZES, to approve the minutes as read. Motion carried.

In the absence of Dave Parkinson, KA9RNU, the treasurer's report was read by Secretary Tom, N9LZW. There was a motion by Rip, W9SIZ, seconded by Don, K9GR, to accept the treasurer's report. Motion carried.

### Repeater Committee Report

Don, K9GR, reported that the repeater system has had some problem recently which is believed to be related to the duplexer. Arrangements are being made for a service technician with service monitor to evaluate the system.

There was a repeater committee meeting recently, and members decided to ask the membership for additional funds with which to purchase a new duplexer if it is confirmed that it needs to be replaced. Don has contacted a manufacturer of a desired duplexer and received a quote of \$820.00.

Maury, W9MQD, suggested that the present duplexer be analyzed before a new duplexer is purchased. He mentioned that

something as simple as a bad coaxial connector on a cavity may be responsible for the desensing problem. Maury also recommended that we contact other repeater operators who are using MICOR repeaters and see what they are using systems.

Sherm, W9NGT, also mentioned that the cavities may just need to be tuned better. Sherm will check to see what the 146.88 system is using. Vice President Chris, N9ZES, will determine what the 146.97 system is using.

Don also explained that transmitter and receiver shields are recommended for our base station when it is used in repeater operation. He has found these shields to be priced at \$1600 for the pair.

Don has ordered a capacitor to replace one that was defective and replaced with a temporary one. He also reported that thanks to Brian, KB9NLF, who picked up the PL units, the repeater is now transmitting a PL of 127.3 for those who wish to use PL decode on their receivers.

### ARES Report

Walt, N9LLS, the Washington County Emergency Coordinator explained that there had been no activity during the past month. There is a plane crash scenario being planned for later this year. Walt also announced that Joel, K9MLD, has a new repeater operating in the Hartford area. It is on an output frequency of 147.285 with plus offset.

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August 15, 16, 17 - 5th Annual "Warrior" Pow Wow, The Highground, Neillsville

September 20 - 4th Annual High-ground Run/Walk, Neillsville

September 21 - Buzzard Buster Mountain Bike Race, Russell County Park, Hatfield

December 6 - 26th Annual Abbotsford Christmas Parade, downtown Abbotsford Mark your calendars now, so that you can keep some, or all, of these dates open.

A request was received to provide ARES radio communications for the annual American Cancer Society "Making Strides Against Cancer" walkathon held in Medford on 6/7/97. Amateur Radio operators who showed up to assist were N9ZLU, KB9KFD and N9MHV. Unfortunately, due to the weather that day (rain), the walkathon was a somewhat abbreviated one, and radio communications services

were not required due to the very limited number of individuals who chose to proceed with the walk.

### OTHER NEWS

A VE Amateur Radio license exam session was held on Saturday, June 14th at Medford, WI. Four VE's participated in administering exams: N9GHZ, N9GEN, AA9LE and KA9WDX. There were two individuals who took exams. Congratulations to Mike Poulda of Gilman, WI (no license) who passed the Element 2 Novice written exam.

Jerry (N0IMJ) and Dawn (N9XZI) Marowsky of Medford will soon be moving to Franklin, Wis., a suburb of Milwaukee, where Jerry will be teaching 7th grade and Dawn will be teaching part-time in the 6th grade room. Good luck to both of them in their new jobs and home. □



# Mancorad Radio Club

Dave Shemchak, KB9KQA,  
Secretary

P.O. Box 204 • Manitowoc, WI  
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

## MEETING MINUTES June 11, 1997

Club President, Janice, N9IQZ, brought the June meeting of the ManCoRad Amateur Radio Club to order at 1930 hrs.

The meeting was started by introducing all members present.

A motion was made by Ken, K9HAG, and seconded by Swanee, N9QFY, to accept the May minutes as published in the "Badger State Smoke Signals".

The Treasurer's report as read by Glenn, AA9MT, was approved. Motion made by Bill, K9DUX, and seconded by Eric, WD9IAB.

Janice, N9IQZ, thanked the members who participated in the Adopt - A - Highway clean-up effort. Members participating were Swanee, Steve, Julie, and Leanne. This is not a very good showing for a 70+ member club! We have a section of Highway 42, north of Two Rivers, near Two Creeks. This section is approximately 2

miles long and I'm sure that those members would have liked more help! There will probably be 2 more dates scheduled throughout the summer for clean-up, PLEASE plan to attend! Dates and times will be announced both at club meetings and on the nets!

A discussion was held, of some preliminary ideas for changes to our Annual Swapfest. Once again anybody with additional ideas, contact Glenn, AA9MT.

Janice, N9IQZ, thanked Eric, WD9IAB, and Jim, KB9GOX, for their participation in the Wisconsin QSO Party.

A discussion was also held on the state of the August meeting. Are we going to have a regular meeting, are we going to have a picnic in place of the regular meeting, or is the meeting going to be canceled due to vacations, etc. As always, any input would be appreciated! If you would like to have a picnic, volunteer to organize it!

ManCoRad's annual Special Event Station aboard the USS Cobia is scheduled for August 16th. For more information, or

to volunteer to operate, contact Eric, WD9IAB, or Fred, W6BSF.

Janice, N9IQZ, mentioned the Jackson, MI and Peotones Hamfests. For more information, contact Janice. Janice also mentioned the Great Circus Train trip from Baraboo to Milwaukee. For more information see the June "Badger State Smoke Signals".

Janice, N9IQZ, has a list of licensed hams in Manitowoc. We would like to send all non-members a welcome letter to try and attract new members. Motion was made to send the letters by Denise, N4WGG and seconded by Eric, WD9IAB.

A motion was made by Ken, K9HAG, and seconded by Swanee, N9QFY, to change the start time of our Thursday evening 2M net from 7:30 p.m. to 8:30 p.m. Hopefully this will accommodate the members' summer schedules better so we have more check-ins.

John, NZ9Z, said that the Sheboygan County Amateur Radio Club could use some help this Sunday (June 15th) with the combined Air show and Antique car show. Times would be from 6:30 a.m. to 2:30 p.m. Contact John for more information.

Tom, KB9GRC, brought in a pamphlet from Fleet Farm for a Coleman Generator. The generator is capable of providing both 120 VAC and 12 VDC at 850 watts. Best of all, it only weighs 22 pounds! Might be a good back-up power source for the shack!

Welcome to a new club member: Jerry Hetrick, KB9QMF!

Eric, WD9IAB, made a motion the adjourn the June ManCoRad Club meeting. The motion was seconded by Mary,

KB9GOY. Meeting was adjourned at 1958 hrs.

Special thanks to Patti, KB9NNX, for standing in for me at the meeting!

A last minute addition here! Thanks to Jim, KB9GOX, for pointing out an error I made in last month's minutes! Our new member last month was Ervin Busse, W9OMO, not W9OVO! My mistake, sorry folks!

Submitted for Approval:  
David Shemchak, KB9KQA, Secretary

## Meeting Attendance

Glenn	AA9MT
Janice	N9IQZ
Patti	KB9NNX
Ken	K9HAG
Vic	WB9VYO
Mary	KB9GOY
Dick	N9QFY
Tom	KB9GRC
Bill	N9XEZ
Bob	KB9INK
John	NZ9Z
Jerry	KB9QMF
Denise	N4WGG
Roger	W9NPX
Ken	WB9OBX
Paul	N9QFX
Bill	K9DUX
Eric	WD9IAB

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Incredibly low \$249.95... for No-code Techs and Veterans alike... Explore the world... Ragchew with locals... 10 Watts Out... Super Hot Receiver...



MFJ-9406  
**\$249.95**  
MFJ-9406X  
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Work exciting 6 Meter DX from all over the world on ham radio's "magic band"!

It's an adventure every time you turn on your MFJ-9406 six meter SSB transceiver.

Distant stations come rolling in loud and clear with crystal clear armchair copy. You'll have fun exploring exotic 50 MHz band openings -- Tropo, Sporadic E, F2, TE, Aurora, Meteor Scatter, and more.

Ragchew with locals, hunt down new grid squares from far-away places from home, car or mountain top.

Includes MFJ-9406 & MFJ-290 microphone.

Here's what you get...

Full SSB/CW coverage: 50.0-50.3 MHz covers SSB, CW, propagation beacons.

Potent signal: 10 Watts PEP output. MFJ's exclusive Constant-Current™ syllabic speech processing gives you up to 6 dB more punch to cut thru noise, fading, QRM.

Hot receiver: Crystal-mixed single-conversion superhet with low-noise preamp digs deep into the noise to capture weak signals. If a station is there, you'll hear it!

Easy to operate: No microprocessor mumbo-jumbo... just turn on and tune in.

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Excellent selectivity: Sharp HF proven SSB crystal ladder filter reduces QRM and passband noise.

TVI protection: Seven element low-pass filter knocks out TVI -- lets you operate when you want to!

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Smooth tuning: Vernier reduction drive makes tuning precise and easy.

External amplifier: Jack provides a key-line for activating 6 Meter SSB amps.

Built to last: Premium PC board, quality components, brushed-aluminum panel and tough vinyl-clad case gives years of service.

Compact: At only 2 1/2 x 6 1/2 x 6 inches, the MFJ-9406 fits in just about anywhere.

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Power Supply: Heavy duty wall transformer and voltage regulator delivers 13.8 VDC for MFJ-9406. Powerful, yet small. Fits in your coat pocket! MFJ-4110, \$39.95.

Portable Battery/AC Power Pack: Use Ni-Cad, Alkaline, regular D cells or 110 VAC. Charges Ni-Cads. Fastens to MFJ-9406. Batteries not included. MFJ-4112, \$69.95.

## 6 Meter Antennas

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MFJ's MFJ-1762 three element 6 Meter Yagi quadruples your effective radiated power over a half-wave dipole. 6 foot boom. 2 pounds. Can use TV rotator and mast. Handles 300 Watts PEP SSB. Mounts vertically or horizontally. Current balun decouples feedline. Excellent front-to-back ratio.

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MFJ's full halfwave MFJ-1764 6 Meter centered antenna has excellent bandwidth and low angle radiation for super DXing! Mounts vertically for FM/Packet or horizontally for SSB. Ferrite choke balun decouples feedline, shunt choke bleeds off static. Strong lightweight aluminum. Two 47" radiators, 23" boom. 1 1/2 pounds. On 2 Meters you get 2 stacked 5/8 wave radiators for twice the gain of a single 5/8 wave!

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**\$149.95**  
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Mobile 6 Meter Antenna Tuner

MFJ-945E, \$99.95. Compact mobile tuner covers 6 Meters thru 160 Meters. Lighted Cross-Needle SWR/Wattmeter. Antenna bypass switch. 300 Watts PEP SSB. 8x2x6". Mobile mount, MFJ-20, \$4.95.

Roller Inductor Antenna Tuner covers 6 Meter thru 160 Meters!

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Power Curve - typical A-1015-G output power for your HT input	Watts Out	Watts In
6	22	42
22	42	63
42	63	84
63	84	98
84	98	122
98	122	142
122	142	150

## Washington County Amateur Radio Club

Continued from page 12

### Old Business

Gary, W9XT, displayed his company's banner as an example of what could be obtained for the club at a cost of about \$60.00. A larger one could be purchased for about \$95.00. Brian, N9LOO, was not present at the meeting but will be asked to come up with a design because he has experience with the club's logo on the WEB site.

Sherm, W9NGT, moved that should the analysis of the repeater indicate that new cavities are required, that funds not to exceed \$600.00 be allocated from the club's General Fund. The motion was seconded by Don, K9GR. After confirming that the 13 members present were a quorum for conducting club business, a vote was taken. Motion carried.

Walt, N9LLS, reported that he and his wife Elaine were preparing food for Saturday evening of Field Day. A sign-up sheet was passed around so everyone could indicated what they were bringing. Walt made a motion that the club purchase meats for the meal and that \$20.00 be allocated. Motion seconded by Bill, N9IBU. Motion carried.

Sherm, W9NGT, reported that the Circus Train would be following the same route as last year on July 7th and 8th. The train will be using the 146.64, 146.67, and 146.73 repeaters. The train will also be using a 2 meter simplex frequency which you can use to contact it for a certificate.

Bill, N9IBU, gave a nice description of a trip that he took to the Netherlands recently. Just wearing your club jacket can strike up a QSO with other passengers on the flight or in the terminals. Bill said that while operating a club station as N9IBU/PA3 he worked about 26 countries in 1 and 1/2 hours. Bill explained that because of the small homes and yards most hams in the region are limited to vertical antennas. He also explained that children take care of their parents in their own homes making nursing homes unnecessary. Another observation was that bicycles have priority over motor vehicles when traveling.

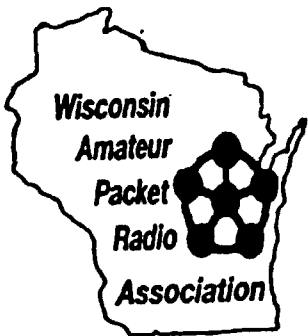
There was a motion by Sherm, W9NGT, seconded by Chris, N9ZES, to adjourn the meeting. Motion carried, Meeting adjourned at 8:35 p.m.

Respectfully submitted  
Tom, N9LZV, Secretary

### Schedule of Events

July 03, 1997 7:30 P.M. Net, 146.730
July 05, 1997 9:00 A.M. Breakfast, Jimmy's in Jackson
July 10, 1997 7:30 P.M. Club meeting, Courthouse in West Bend
July 12, 1997 9:00 A.M. Breakfast, Mineshaft in Hartford
July 17, 1997 7:30 P.M. Net, 146.730
July 19, 1997 9:00 A.M. Breakfast, Slinger Inn
July 24, 1997 7:30 P.M. Net, 146.730
July 26, 1997 9:00 A.M. Breakfast, Woodview
July 31, 1997 7:30 P.M. Net, 146.730





# THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association  
Bob Gedemer, KA9JAC  
609 Wilson Street • Neenah, WI 54956

Andy Nemec, KB9ALN, Editor • 720 N. Broadway (Upper West) • Green Bay, WI 54303

## WAPR News - July 1997

Hello, everybody. Hope you are ready to enjoy a fun July 4th, and wish you a safe and happy holiday.

As you know from last month's news, the WAPR meeting took place at the Junction City hamfest sponsored by our friends at the CWRA. As of this writing, I do not have the meeting minutes available. They will be included next month, along with the latest news concerning the status of the Wisconsin Packet Radio Network.

By the way, WAPR starts a new fiscal and membership year with the month of July. If you have thought about helping to support the packet radio network, joining WAPR is a dandy way to do just that. You can conveniently bundle your subscription to the Badger State Smoke Signals with your WAPR membership, which will allow you to get a discount subscription rate to this fine monthly.

Why join? While WAPR does not undertake to build the entire network, we do attempt to help financially when we can. The less obvious, but equally important role of WAPR is to help our Wisconsin Packet Radio Network grow in a coordinated fashion. WAPR is your link to other packet radio groups, and we work with them in order to keep our network current. Please fill out the membership form provided on this page and become a part of WAPR. You help shape the future of the Wisconsin Packet Radio Network when you join.

In the last few months, we have talked about the future of packet radio in some detail. While a lot of it is simply logical prediction, there is, curiously, a partial movement toward what we have been talking about. You will remember a few issues back when we started a discussion of what our future packet radio network might look like. This is what got us on the subject of "door-to-door" mail delivery.

Two interesting developments have come to my attention recently, both involve the World-Wide Web. People who have explored the "web" know that the protocol used there is called "http", the Hyper-Text Transfer Protocol. Now we see that this is starting to be applied to packet radio. The past few releases of the JNOS TCP/IP software support http, so that you can indeed have packet radio "home pages" accessible through the packet radio network. A packet-internet gateway would also allow one to log in via packet radio, and also look at the internet's World-Wide Web.

Now some of you might be saying "fine, but now I have to change software to JNOS to use it!". Au, contraire! While you would not use your conventional packet program to see web pages, you can use something you probably already have. If you currently have internet service and "surf the Web", you have the capability to use that series of programs with your TNC and do the same. You see, you no longer have to run a "NOS" program in order to use TCP/IP services (like http, ftp, telnet, and such).

Steve Hudson, VK4VH has a neat solution that allows you to use your current browser (such as Netscape or Internet Explorer) and Windows TCP/IP programs to access Amateur Radio TCP/IP. The solution is a program called ETHRAX25, and it couples your Windows TCP/IP system to AX.25, the protocol used on Amateur Radio. What this means is that you no longer have to learn a new program to take advantage of TCP/IP

services that you may have in your area. It is also a simple "point-and-click" way to make connections. One of your friends have a TCP/IP station with some neat programs on it? You can use this interface to ftp those files from him.

Of course it is no faster to use TCP/IP at 1200 bps than it is to use AX.25. And at a 1200 bps data rate, graphic web pages will take some time to download. But as 9600 bps user data rates become more commonplace (cheaper and easier is the key here), this may well usher in a new era in packet radio.

Incidentally, this package also allows automatic collection of your mail from a BBS running TCP/IP, as well. Yes, another way to get "door-to-door" packet mail delivery. And you can use your current internet mailer program to send and read mail.

If you would like more details on how to accomplish this, check out this home page URL:

<http://hambox1.cqu.edu.au>

You will find a button marked "download section". Click on this and look for the instruction file on ETHRAX25. It will give you downloading and setup instructions. If some of this is unfamiliar to you, anyone who has worked with TCP/IP (in amateur packet radio or not) should be able to help you set it up.

Here in Green Bay, we are hoping to have a JNOS BBS with HTTP service near the end of summer or early fall. As the project gets further along, I will let you know how it all functions.

That's about all we have time and space for this month. Until next time, 73 from Andy.

## THE TESTPOINT

(continued from page 3)

Test Site: Hayes Community Center  
14601 Hayes Road

Apple Valley, MN  
TESTING: Second Thursday of the month 7:00 p.m.

W5YI  
Contact: Dave Ranney, N0AXL (612) 933-2182

Test Site: Eden Prairie Library  
479 Eden Prairie Drive  
Eden Prairie, MN  
TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)  
Contact: Dave Harrell, N0IPN (612) 459-8678  
Test Site: Cottage Grove fire Station  
8641 80th ST., S  
Cottage Grove, MN  
TESTING: Third Saturday of the month, 9:00 a.m.

The above information has been furnished by the various VEs. However, it is suggested that you confirm time, date and location BEFORE you make the trip to the test site. Occasionally, a test may be canceled and/or dates and locations changed. A Phone call could save you some grief and a wasted trip.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

## WISCONSIN AMATEUR PACKET RADIO MEMBERSHIP APPLICATION

PLEASE PRINT

NAME: \_\_\_\_\_ CALL: \_\_\_\_\_ HOME PHONE: (\_\_\_\_) \_\_\_\_\_

ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

HOME BBS: \_\_\_\_\_ FREQ. \_\_\_\_\_ (Listing your home BBS is important)  
Your HOME BBS should be a full service BBS, not your TNC's mailbox.

MY PACKET STATION OPERATES: \_\_\_\_\_ DAY \_\_\_\_\_ NIGHT \_\_\_\_\_ 24HRS

I OPERATE A: \_\_\_\_\_ DIGIPEATER WITH ALIAS OF: \_\_\_\_\_

\_\_\_\_\_ FULL SERVICE BBS

PRIMARY PACKET INTEREST/EXPERTISE IS: \_\_\_\_\_

\_\_\_\_\_ YES I want to receive Badger State Smoke Signals and I understand that part of my dues goes to pay this subscription. cost \$20.00

\_\_\_\_\_ NO I do not wish to receive Badger State Smoke Signals as a part of my WAPR membership. Cost \$15.00

COMPLETE and return this form with your check or money order - \$15.00 membership only or \$20.00 membership and Badger State Smoke Signals. made payable to W.A.P.R. (NOT payable to Bob Gedemer) to:

Bob Gedemer KA9JAC/WAPR  
609 Wilson St.  
Neenah, WI. 54956-3129



How To Repair A Network Node

Step 1. Approach the ailing node in a confident manner. This will give the node the mistaken idea that you know something. It will also impress anyone who happens to be looking, and if the node should suddenly start working, you will be credited with its repair. If this step fails to work, proceed to step 2.

Step 2. Wave the manual at the node. This will make it assume that you are at least familiar with the source of knowledge. Should this step fail to work, proceed to step 3.

Step 3. In a forcible manner, recite Ohms Law to the instrument (CAUTION: before taking this step, be sure of your knowledge of Ohms Law). This will prove to the node, beyond the shadow of a doubt, that you happen to know something. This is a drastic step and should be attempted only if the first two fail. If this step fails to work, proceed to step 4.

Step 4. Jar the instrument slightly. This may require anything from a three to six foot drop, preferably on a concrete floor. However, you must be careful with this step because, while jarring is an approved method of repair, you must not mar the floor or get the node out of alignment. Again, this is a very drastic step. If it fails, proceed to step 5.

Step 5. Brandish a large screwdriver in a menacing manner. This will frighten the node and demonstrate your knowledge of the deadly "short circuit" technique. Proceed to step 6.

Step 6. Add a tube. Even though the node is solid state. This will prove that you are familiar with the nodes design. This will confuse the node and thereby increase your advantage. If this does not work, proceed to the most drastic and dangerous step. It is seldom needed and is a final resort if all else fails!!

Step 7. THINK!

(Courtesy of READY, FIRE, AIM school of operations; author unknown.)

Taken off packet from VE3ABG @ VA3BBS.#SCON.ON.CAN.NA



Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call)  
K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary  
450 West 2nd Street • Reedsburg, WI 53959



The June 12, 1997 of the Yellow Thunder Amateur Radio Club, Inc. was called to order at 7:47 p.m. by Steve Schulze, N9UDO. The meeting was being held at the Sauk County Sheriff's Department building's EOC, that is, once all the members and guests found a parking place. (we were competing against the Concert on the Square crowd).

Tim Stieve, director Emergency Management, Buildings & Safety and Corene J. Ederer-Sklar gave the club a presentation on Emergency Management and a tour of the operations center.

The regular business meeting followed the tour. Minutes were accepted as printed in BSSS. Jim Decker, WB9UQT stated the club was still solvent. He announced that he was being treated for cancer and requested a volunteer to help with his treasurer's duties. Bill Klinkner, N9KXX will help out.

OLD BUSINESS: The club has heard nothing from the Twin Cities AIDS Bike Ride. Art Kleefisch, W9WSS has been in contact with a bike group peddling across America who will be in Baraboo July 15 & 16. Bill Hommel, KA9QFJ offered to help Art. Steve Schulze updated the club on the club's upcoming Swapfest. Help will be needed from everyone to make it a success.

NEW BUSINESS: Field day is June 28 & 29 at Owen Park. Circus train is July 7-8. Dave Estez, KB9QDE applied and accepted for membership into the club.

Buck night winner was #6. As no one had a roster, no one knew who number 6 was, but we thanked #6 for contributing the winnings to the Field Day Refreshment Fund (FDRF).

Next Meeting is Tuesday July 15, 1997 at 7:30 p.m. in room 14 of the Baraboo Civic Center.

Sincerely,  
Raymond J. Matlosz,  
N9MLZ, club secretary

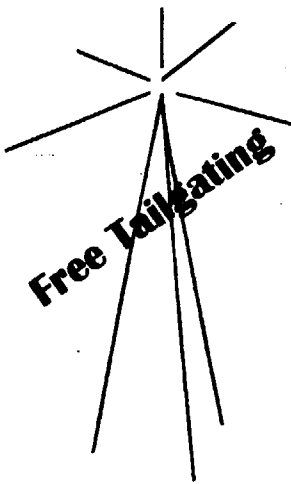
The following members and guests were present:

Dave Spearing	KB9CSW	Portage
Dave Estez	KB9QDE	Reedsburg
Tom Fleming	N9SZF	Madison
Bob Aspinwall	KA9UPZ	Madison
Jim Paul	N9LKY	Baraboo
Joe Mayenschein	WB9SBD	LaValle
Linda Mayenschein	KA9CHM	LaValle
Leonard Wagner	N9XJG	Baraboo
Thomas Harrison	N9PQJ	Reedsburg
Wayne Burgess	N9UDX	Madison
Ken Rosen	KE4UIJ	Lake Delton
Peter Sweeney	WD9JIB	Reedsburg
Bill Hommel	KA9QFJ	Baraboo
Steve Schulze	N9UDO	Baraboo
Bill Klinkner	N9KXX	Sauk City
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo
Raymond Matlosz	N9MLZ	Reedsburg

I worked with a young man whose little sister attended a preschool. One morning a firefighter went to the school and explained the "Stop-Drop-Roll" method of putting out a fire to the children. After demonstrating the method, the firefighter asked one boy, "Now, Johnny, if your coat was on fire, what would you do?"

"I wouldn't put it on!" he quickly replied.

Taken off packet from NOAHH @ NX0C.#SCMN.MN.USA.NA



HAMFEST 97

Racine Megacycle Club  
Sunday, July 27th, 1997

at  
South Hills Country Club  
on E Frontage Rd  
(I-94 between Hwy 20 & Cty Rd K)  
Dealer Setup 6:00am  
Public 8:00-2:00pm

South Hills Country Club

AIR CONDITIONED!

Amateur Exams

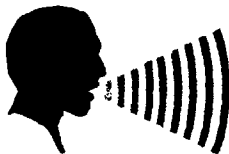
FREE FORUMS



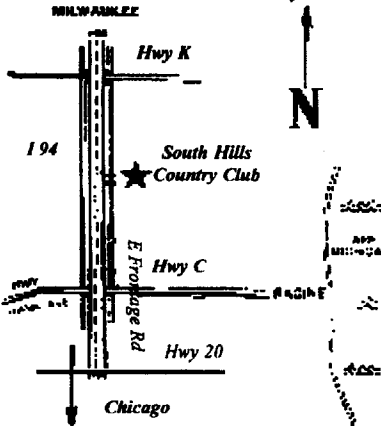
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Admission Tickets \$4.00 (Required with Table)  
Table Reservation \$8.00  
Electricity \$1.00  
Total

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# SHOPPER'S GUIDE

## SWAPFESTS



### 26th ANNUAL MIDWINTER SWAPFEST

WAUKESHA EXPOSITION CENTER  
WAUKESHA, WISCONSIN  
SUNDAY  
JANUARY 11, 1998

Both sponsored by:  
THE WEST ALLIS RADIO AMATEUR CLUB, INC.  
P. O. BOX 1072 • MILWAUKEE, WISCONSIN 53201

### HAM IT UP EVERY SPRING! MADISON SWAPFEST SUNDAY, APRIL 5, 1998

John Q. Hammons Trade Center  
1313 John Q. Hammons Drive  
Just west of intersection of Beltline and Greenway Blvd.  
Sponsored by MARA/W9HSY  
P. O. Box 8890 Madison, WI 53708-8890  
Swapfest Information Line: (608) 245-8890

### SOUTH MILWAUKEE AMATEUR RADIO CLUB SWAPFEST 97

July 12, 1997  
(Held every July)  
American Legion Park  
Shepard Avenue • Oak Creek, WI  
(414) 762-3235 Extension 58  
P. O. Box 102 South Milwaukee, WI 53172

### Fox Cities Hamfest Sunday, November 2, 1997

Starlite Club, Hwy. 55 north of Kaukana

HAMFEST INFO:  
Chad Pennings, N9PRC  
318 E. Brewster St.  
Appleton, WI 54911  
(414) 759-0799

EXAM INFO:  
Larry Siebers, KD9IA  
(414) 759-1167

### Lakeshore Hamfest and Computer Swapfest

Manitowoc County Expo  
Intersection of Hwys. 42-151 and I-43 on Cty. Hwy. R  
Saturday, May 10, 1997

For more information, call:  
Glenn, AA9MT: 414-684-7096  
Red, N9GHE: 414-684-9097  
ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

### TRI-COUNTY ARC PRESENTS HAMFEST 1998 YOUR SPRING FAVORITE! Sunday, March 15, 1998 Jefferson County Fairgrounds

TCARC • 213 Frederick Street Fort Atkinson, WI 53538 414-563-6381 Evenings

### 20th Annual CWRA Swapfest

Sunday, June 8, 1997

8 a.m. to 2 p.m.

JUNCTION CITY VILLAGE PARK

Info: John Feltz, WA9LWJ (715) 457-2506  
973 E. First Street Junction City, WI 54443

### Eau Claire Amateur Radio Club SWAPFEST

Saturday, July 12, 1997

Eau Claire County Fairgrounds

Intersection of Highways 93 and I-94  
Carol Ceraso • (715) 723-9205 Liz Searing • (715) 834-1303  
P.O. Box 1867 • Eau Claire, WI 54702-1867  
<http://www.edp.net/~mceraso/hamfest.html>

### RACINE HAMFEST 97 Sunday, July 27, 1997

8 A.M. - 2 P.M.  
SOUTH HILLS COUNTRY CLUB I-94  
East Frontage Road  
Between Highway 20 and Highway K  
OUTDOOR AND INDOOR SALES  
Free Tailgating  
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Commercial Dealers • Forums  
TABLES \$8.00  
Advance Tickets \$8.50 and \$4.00  
Send to RMC, P.O. Box 3, Racine, WI 53401

### Ozaukee Radio Club 20TH ANNUAL RADIO AND COMPUTER SWAPFEST Saturday, May 2, 1998

8 a.m. to 1 p.m. • Circle B Recreation Center  
Intersection of Highway 60 and County I  
Exams by Badger Examiners, c/o Gary Sharbuno,  
5119 W. Willow Rd., Brown Deer, WI 53222  
Swapfest sponsored by the Ozaukee Radio Club  
W58 N985 Essex Drive, Cedarburg, WI 53012-1439

### Adams County Amateur Radio Club SPRING HAMFEST Sunday, June 7, 1998 (NOTE DATE/YEAR CHANGE)

Adams County Fairgrounds  
West of Hwy. 13 on Cty. J • Friendship, WI  
Adams County Amateur Radio Club P. O. Box 232  
Friendship, WI 53934 (608) 564-7887  
Packet: N9TD-1 on 145.03

### Red Cedar Repeater Association, Inc.

## AUCTION

February 24, 1998 • 7:00 p.m.

American Legion Post 53 • 634 Water Street  
Eau Claire, WI

CONTACT: Steve Hart, KA9OMC 715-665-2374  
E616 810th Ave. Knapp, WI 54749

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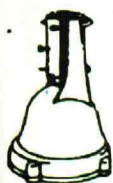
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